MAY 26, 2020 BY JASON K. RESCH

Are we alone?

▶ 0:00 / 0:00

Watch Episode Download eBook

Are we alone? Might Earth be the sole exception to an otherwise dead universe? We shouldn't be. The ingredients for life are everywhere — life should be common. But then, *where is everyone?*

This article explains the three possible answers to this question. By the time you finish reading, you will have a firm grasp of the relevant science, enough to form an opinion on which answer is probably right.

Contents

1. Requirements of Life
    1.1. Matter
    1.2. Energy
    1.3. Time
2. Life's Tenacity
    2.1. Rapidity of Life
    2.2. Extremophiles
    2.3. Panspermia
3. The Fermi Paradox
4. The Drake Equation
            4.0.0.1. Assumptions:
            4.0.0.2. Detectable Civilizations:
5. Our Search for ET
    5.1. Listening for Signals
    5.2. Looking for Planets
        5.2.1. Finding Habitable Planets
        5.2.2. Searching for Signs of Life
    5.3. Searching for Artifacts
        5.3.1. Von Neumann Probes
        5.3.2. Megastructures
    5.4. Sending our Greetings
        5.4.1. Broadcasts
        5.4.2. Greeting Cards
6. Solutions to Fermi's Paradox
    6.1. We are Alone
        6.1.1. Life is Rare
        6.1.2. Intelligence is Rare
        6.1.3. We are the First
        6.1.4. Intelligence Destroys Itself
    6.2. They Isolate
        6.2.1. They are Quiet

SEARCH

Search …

BE NOTIFIED OF NEW POSTS

Name*

Email*

SUBSCRIBE

FOLLOW ALWAYS ASKING

POPULAR ARTICLES

Is there life after death?
251.2k views | posted on August 24, 2020

What is the meaning of life?
75.8k views | posted on November 30, 2020

Are we alone?
52.7k views | posted on May 26, 2020

What is time?
43.1k views | posted on August 6, 2020

How big is the universe?
18.9k views | posted on May 18, 2020

Why does anything exist?
18.3k views | posted on March 8, 2021

When will AI take over?
11.5k views | posted on June 12, 2020

6.2.2. Space is Too Big
6.2.3. They Leave our Universe
6.3. They are Here
6.3.1. Earth is Protected
7. Conclusions

Requirements of Life

To arise, life needs three things: ***Matter***, ***Energy***, and ***Time***.

All can be found wherever there are stars. Each star is like a scratch-off lottery ticket — a chance to win by having the right combination. The prize: the universe gains a new planet full of life.

The chance a ticket pays off remains unknown, but science has made progress in estimating the odds.

Given the huge number of tickets, (there are 10^{22} stars in the observable universe), the chances seem good that more than one has paid off.

Let's review the specific requirements life has for matter, energy and time.

Matter

Matter is the stuff life is made of, the building blocks. These are the *chemical elements* — hydrogen, oxygen, carbon, nitrogen, and so on. These elements exist everywhere. They're created as byproducts of fusion — the ash of nuclear fires which burn in every star.

> The nitrogen in our DNA, the calcium in our teeth, the iron in our blood, the carbon in our apple pies were made in the interiors of collapsing stars. We are made of star stuff.
>
> *— Carl Sagan*

Hydrogen, oxygen, carbon, and nitrogen make up over 99% of the atoms in our bodies. The others are needed only in trace amounts. These same four elements that compose the bulk of our bodies are also the most common chemically-active elements in the solar system.

The same physics and chemistry that operate here apply everywhere in the universe. The familiar elements on Earth are found in every star and galaxy we see. This is more than conjecture. Through analysis of light astronomers can determine the chemical composition of far away stars, nebulae, and galaxies.

Can aging be cured?
7.6k views | posted on July 30, 2020

Is the universe fine-tuned?
3.5k views | posted on October 14, 2020

LATEST ARTICLES

Why does anything exist? March 8, 2021

What is the meaning of life? November 30, 2020

Is the universe fine-tuned? October 14, 2020

Is there life after death? August 24, 2020

What is time? August 6, 2020

RECENT COMMENTS

Guilherme Monteiro Jr. on How big is the universe?

Guilherme Monteiro Jr. on How big is the universe?

Guilherme Monteiro Jr. on How big is the universe?

Guilherme Monteiro Jr. on How big is the universe?

Guilherme Monteiro Jr. on How big is the universe?

Guilherme Monteiro Jr. on How big is the universe?

Guilherme Monteiro Jr. on How big is the universe?

Guilherme Monteiro Jr. on How big is the universe?

Guilherme Monteiro Jr. on How big is the universe?

Guilherme Monteiro Jr. on How big is the universe?

REGISTER TO COMMENT

The ALMA observatory detected complex organic molecules in a gas cloud 27,000 light years away. Image Credit: Y. Beletsky (LCO)/ESO

Complex organic (carbon-containing) molecules, the precursors to life including amino acids, have been detected in distant star-forming gas clouds, or stellar nurseries near the center of the galaxy.

So you *are* made of the same stuff as stars, planets, comets and gas clouds.

Given the availability of these vital ingredients, the whole universe is filled with the matter needed for life. But life still needs energy and enough time to evolve.

Energy

All life feeds on energy. Energy forestalls the natural tendency towards disorder. Any time order is created, such as in growing a body, energy must be expended.

Plants obtain energy from sunlight and store it in chemical bonds. Animals get energy from plants, by eating them and breaking those bonds to release energy, or they eat other animals.

The energy that drives the entire food chain and powers all living things on Earth started in the core of our sun. The same fusion responsible for cooking the chemicals of life provides stars, *and life*, their energy.

Though all life needs energy, not every life form gets it from sunlight.

Europa, one of Jupiter's moons, appears on the surface to be a frozen ball of ice. But scientists believe that 10 miles under its frozen surface lies an ocean with twice the liquid water of Earth's oceans.

What provides the energy to melt this ice? The tides!

Tidal friction creates heat that could melt the ice and provide energy for life. Ultimately this energy comes from the spinning of Jupiter. As Europa's own tidal forces drag on Jupiter, Jupiter's rotation slows and its days become longer.

The oldest known lifeforms used geothermal, rather than solar energy. They got their energy from hydrothermal vents like the Lost City — undersea geysers powered by the heat of Earth's interior.

Life uses energy wherever it finds it.

Fossilized hematite tubes from the NSB hydrothermal vent deposits are the oldest evidence of life on Earth.
Image Credit: Matthew Dodd, University College London.

In 2017, researchers discovered fossilized *hematite tubes* that are 4.28 billion years old. This is the oldest evidence for life known. In comparison, Earth is 4.54 billion years old and its oceans, 4.41 billion years.

Once conditions permitted, it didn't take long for life to start.

Time

The final requirement for life is *time* — time for life to arise and evolve.

After the formation of Earth, it took a few hundred million years for life to appear. Several billion more were needed to evolve multicellular life. It took a total of 4.3 billion years to get to mammals, and 4.5 billion to yield a tool-making civilization.

To progress through these stages required an environment that remains stable for long periods.

The large stars exhaust their nuclear fuel and explode or collapse after millions of years. This time is too short to host planets with complex life. But in their demise they give hope to others. The elements baked in their cores is what enables life in other star systems.

This explains why life could not appear much earlier in the universe's history: several generations of large stars had to form, live, die, and explode to spread their ash--the stuff of life--into interstellar space.

Smaller stars are needed to tend to a life-bearing planet. They offer sufficient time for life to do its thing. The lifespan of a star depends on its mass. The smaller its size the longer it lives. Medium-sized stars like our sun last for billions of years. Smaller stars, like red dwarfs, can live for trillions.

Time is one thing the universe is not in short supply of. But life also needs stability.

For a planet to nurture life, it must provide stability. It needs a stable orbit and a host star with a consistent brightness. The planet must also avoid potentially life-ending calamities — asteroid impacts, super volcanoes, and gamma-ray bursts.

Earth has had her own share of catastrophes. The Moon is thought to have formed when Earth collided with a Mars-sized planet called Theia. It's also believed that at one time the entire surface of Earth was covered in ice.

Despite these, and many asteroid impacts and super volcanoes, once it got started life has held on.

Life's Tenacity

Life has been found as deep as 19 kilometers underground, 77 kilometers up in the atmosphere, in lakes under the ice of Antarctica and in the scalding 80°C pools of Yellowstone. Where life can exist it will.

Rapidity of Life

Life took hold nearly as soon as conditions permitted.

Of Earth's 4.54 billion year history, 94% of that time it's been home to life.

> If life arose relatively quickly on Earth, then it could be common in the universe.
>
> *— Stephen Blair Hedges*

Despite many attempts by nature to kill it off, life hasn't let go since it took hold. Life is hardy.

Extremophiles

As an indication of the extreme conditions life might tolerate on other planets, biologists on Earth have taken particular interest in *extremophiles* — creatures that can survive under extreme conditions.

The Bacillus bacteria has been found to survive temperatures of 420°C (788 °F), and have been revived from a dormant state after 10,000 years. One report even claims to have revived it after being locked in a piece of amber for 25 million years.

Perhaps the most resilient species on Earth is the Tardigrade, also known as water bears. They're about 1 mm long and look like tiny 8-legged hippos. They can be found almost anywhere.

A water bear, also known as a tardigrade, can survive almost anywhere. Image Credit: EYE OF SCIENCE / GETTY IMAGES

Water bears live mainly in fresh water and moss, but have been found on the tops of mountains, at the bottom of the sea, in hot springs and rainforests and even in the icy antarctic.

They can survive ionizing radiation, dehydration, starvation, being chilled to near absolute zero and heated to over 150°C. Tardigrades can tolerate exposure to the vacuum of space as well as pressures 600 times that of Earth's atmosphere. They can put themselves in suspended animation and reanimate a century later.

The European Space Agency sent water bears to space to be exposed to solar radiation, cosmic rays and the vacuum — two thirds survived. Some of the females even laid healthy eggs while in space.

If creatures can be so tough as to survive in space without suits, could they hitch rides to other worlds?

Panspermia

A theory called panspermia proposes that it's not just the elements of life that are spread throughout space, but the seeds of life itself — primitive organisms that can survive trips through space and colonize suitable worlds they land on.

It sounds outlandish, but there are indications it's possible. Though no mission to Mars has ever returned with a sample of Martian rocks, you can see a rock from Mars at the London Natural History Museum.

In fact, to date over 266 Martian rocks have been found on Earth. How did they get here?

These rocks were blasted into space by impact events on the surface of

Mars. Once in space they floated for unknown amounts of time before getting caught in Earth's gravity, and falling to the surface.

Mars had oceans before Earth. Some scientists believe life began on Mars.

Mars may have had oceans while Earth was still recovering from its collision with Theia.
Image Credit: NASA/GSFC

If life began on Mars, it is possible that it hitched a ride to Earth on a Martian meteorite.

In 1996, NASA scientists found evidence of fossilized microbes in a Martian meteorite. The meteorite was discovered in the Allan Hills of Antarctica in 1984, giving it the designation: Allan Hills 84001.

> Today, rock 84001 speaks to us across all those billions of years and millions of miles. It speaks of the possibility of life. If this discovery is confirmed, it will surely be one of the most stunning insights into our universe that science has ever uncovered. Its implications are as far-reaching and awe-inspiring as can be imagined. Even as it promises answers to some of our oldest questions, it poses still others even more fundamental.
>
> *— President Bill Clinton*

But the evidence was speculative: it was based on nothing more than microscopic bacteria-like shapes found in the rock. The scientific community did not accept this as definitive evidence of life on Mars.

But in 2019, Hungarian scientists studying another meteorite of the same region, Allan Hills 77005, had a significant finding. It turned out these bacteria-like shapes not only had similar forms and size to bacteria, but chemical analysis revealed *mineralized organic compounds*--chemicals we would expect to find if these shapes are indeed the fossilized remains of once living cells.

If the first life did arrive here on a meteorite, we're not *Earthlings* but *Martians*.

Though life may have started on Mars, complex life could not arise there. Mars's feeble gravity couldn't hold on to her ocean or thick atmosphere. As they leaked into space, Mars became progressively colder and drier. This fact demonstrates the equally important requirement of time.

Earth's oceans are destined to suffer a similar fate. But not for another 1.1 billion years.

In April 2019, the *Beresheet* lunar lander — a privately funded project — accidentally crashed on the moon. Among its cargo was a sample of water bears, who are believed to have survived.

> We believe the chances of survival for the tardigrades… are extremely high.
>
> *— Nova Spivack*

So there *is* life on other worlds. It came from Earth and it's now on the Moon--*panspermia in action.*

The Fermi Paradox

Enrico Fermi is the architect of the nuclear age. He built the first nuclear reactor by arranging tons of Uranium and graphite in a massive pile in downtown Chicago. The reactor was built in secret in an abandoned racket court under Stagg Field at the University of Chicago.

The undertaking was top secret--part of the Manhattan Project. Despite the dangers of building a reactor in a densely populated area, project leaders trusted Fermi's calculations.

In the summer of 1950, Fermi made a visit to the Los Alamos Scientific Laboratory. At the time, Edward Teller and others were working on the *fusion bomb*--a bomb that would release the energy of the stars on Earth.

During a casual lunch with fellow nuclear scientists Edward Teller, Herbert York and Emil Konopinski, Fermi blurted "***But where is everybody?***"

> The result of his question was general laughter because of the strange fact that in spite of Fermi's question coming from the clear blue, everybody around the table seemed to understand at once that he was talking about extraterrestrial life.
>
> *— Edward Teller*

In the ensuing conversation, Fermi did some rough calculations. He estimated the number of stars, the fraction of stars with planets, the fraction of those planets the right distance from their star, and so on, to arrive at a rough approximation of the number of planets with life.

The number he arrived at was so great, Fermi concluded we should have been visited many times over.

Here was a contradiction. On one hand, the calculations say we should have been visited. On the other hand, the lack of evidence suggests we haven't.

This contradiction is the *Fermi Paradox*.

The Drake Equation

In 1961, the astrophysicist Frank Drake formalized Fermi's estimations in *The Drake Equation*.

It is a simple formula. It simply multiplies together seven values to provide a final estimate for: N — the number of presently detectable alien civilizations in our galaxy.

$$N = R_* \cdot f_p \cdot n_e \cdot f_l \cdot f_i \cdot f_c \cdot L$$

Each of the seven numbers is a parameter whose estimate can be refined over time as new data comes in.

The parameters span distinct areas of human knowledge, including astrophysics, biology, evolution, anthropology, and technology. As our knowledge concerning these parameters improves, so too does our estimate for N.

Below is a Drake Equation calculator. You can change the inputs and see what kinds of estimates you obtain for the number of intelligent civilizations that are out there and presently detectable.

Assumptions:

R_*	2	(1.5 – 3)	annual rate of star formation in our galaxy
f_p	0.95	(0.2 – 1)	fraction of stars with planets
n_e	0.25	(0.1 – 5)	environments suitable for life per star with planets

f_l	1	(~1)	of suitable environments, the fraction that develop life
f_i	0.5	(0.01 – 1)	the fraction of life that develops intelligence
f_c	0.15	(0.1 – 0.2)	the fraction of intelligent life that emits detectable signals
L	500	(>100)	the number of years intelligent life remains detectable

Detectable Civilizations:

One pattern you may notice from playing with the equation is how difficult it is to get the number of predicted civilizations in the universe down to one. It requires what seem to be *insanely conservative* estimates for the parameters. This is a reflection of the sheer quantity of stars in the observable universe.

There are some hundred billion stars in our galaxy, and there are about a hundred billion visible galaxies. This amounts to 10^{22} stars. Could Earth be the only civilization in the observable universe?

This requires the probability of a star system producing intelligent life to be extremely low — on the order of one out of 10^{22}. That's one in 10 billion trillion or: 1 followed by 22 zeros. To appreciate the magnitude of this number it helps to see it written out:
1 in 10,000,000,000,000,000,000,000.

Even if life is very rare, so long as it is not *incredibly rare*, the universe ought to be teeming with it.

> One in 10 billion trillion is incredibly small. To me, this implies that other intelligent, technology producing species very likely have evolved before us. Think of it this way. Before our result you'd be considered a pessimist if you imagined the probability of evolving a civilization on a habitable planet were, say, one in a trillion. But even that guess, one chance in a trillion, implies that what has happened here on Earth with humanity has in fact happened about 10 billion other times over cosmic history!
>
> *— Frank Drake*

To imagine just how many stars there are, try to imagine all the grains of sand on a beach. One handful of sand contains about 10,000 grains. More than the few thousand stars you might see in a perfectly dark sky.

Yet the total number of stars in the observable universe exceeds all the grains of sand on all of Earth's beaches. You would need 10,000 Earths to have as many sand grains as there are stars.

How likely is it that of all these grains, only one is blessed with life?

Our Search for ET

Today there are four tracks in our search for extraterrestrial life:

- **Listening** for intelligent signals
- **Looking** for habitable planets
- **Searching** for alien artifacts
- **Sending** our friendly greetings

Listening for Signals

The Search for Extraterrestrial Intelligence (**SETI**) began in earnest in 1984. Frank Drake was one of the SETI Institute’s first leaders. The mission of SETI is to understand the origin of life and the evolution of intelligence.

The *Arecibo Radio Telescope* in Puerto Rico is one of the most sensitive and powerful antennae on Earth.

SETI employs a network of radio telescopes to comb the sky for transmissions by technological civilizations.

To date, SETI has scanned only a minuscule fraction of the sky. So far, there have been no confirmed detections of alien signals. However, one detected signal defies all explanation.

In 1977, Dr. Jerry Ehman was a volunteer at SETI. One day, he looked over data collected from the Big Ear radio telescope a few days prior. The telescope was listening in the direction of the Sagittarius constellation.

It was then that Ehman noticed something that astonished him and his colleagues.

> I came across the strangest signal I had ever seen, and immediately scribbled ‘**Wow!**‘ next to it. At first, I thought it was an earth signal reflected from space debris, but after I studied it further, I found that couldn’t be the case.
>
> *— Jerry Ehman*

The event is known as the Wow! signal.

Nothing like it has ever been observed since. The Wow! signal is surprising on many levels:

- No known astronomical phenomenon produces a signal like what was seen
- The signal was strong and clear, many times stronger than the background noise
- The signal was at 1420 MHz, the exact frequency astronomers expect ET to use, and in a frequency range where international law prohibits transmissions (1400 – 1427 MHz is restricted)
- The signal's Doppler shift indicated it came from a fixed point in the sky not moving with the Earth or solar system. This rules out any spacecraft, aircraft or terrestrial origin.
- NASA confirmed there were no space probes in the direction of the sky at the time
- The direction of the signal was 90 degrees off from any planet including Pluto
- Despite hundreds of attempts to detect the signal again, it was never seen since

The Big Ear Telescope points in a fixed direction and only sweeps across the sky as the Earth spins. Accordingly, the Big Ear Telescope was only able to hear the Wow! signal for 72 seconds. These 72 seconds represent the only concrete evidence we have of extraterrestrial intelligence, and it's far from conclusive.

But we don't have to wait for alien life to make the first move. We can go out and look for it.

Looking for Planets

When the moon crosses between the Earth and Sun, the result is a solar eclipse. During such an eclipse, the sky darkens as the Moon's shadow crosses over the Earth.

But the moon is not the only body that can create an eclipse. Eclipses that don't fully block out the sun are known as transits. This is when we see an astronomical body, such as Mercury or Venus, cross the disc of the sun.

Venus transiting the sun in 2012. The next transit of Venus will not recur until 2117. Image Credit NASA/SDO

Mercury Transit 2019 - 4K

Transits by Mercury occur much more frequently. The most recent was in 2019.

Whenever a body crosses between Earth and the sun, the result is an apparent dimming. Less light makes it to Earth as a result of it being blocked by that body, be it the Moon, Venus or Mercury.

Astronomers realized this dimming effect could reveal planets in far away star systems.

Finding Habitable Planets

The Kepler Space Telescope remained in service from 2009 to 2018. In that time, it monitored over half a million stars for periodic dimming--evidence of transiting planets. Based on the amount of dimming and how long it lasts, astronomers can determine both the size of the planet and the speed of its orbit.

Using the laws of planetary motion formulated by Johannes Kepler, the speed a planet orbits its star depends on its distance from that star. Thus, the patterns of dimming of a star give scientists enough data to know if there is a planet in the *habitable zone* of that star.

The habitable zone, also called the Goldilocks zone, is a distance from a star that's not too hot, nor too cold, but just right. For instance, Earth sits sandwiched between blistering Venus and freezing Mars.

The Kepler Space Telescope was a great success. Kepler discovered 2,662 planets beyond the solar system. Moreover, its data gives us better estimates for two parameters of the Drake Equation.

The fraction of stars with planets f_p appears to be very close to 1.

Kepler was also able to provide estimates for the number of environments n_e suitable for life in each star system. Kepler's data indicates at least 20% of star systems have a planet in the habitable zone.

Artist's conception of habitable-zone planets identified by the Kepler satellite. Image Credit: NASA/JPL-Caltech

One habitable zone planet, K2-18b, is especially interesting. The planet was noticed by Kepler and found to be orbiting a star about 100 light years away--close enough for Hubble to analyze the planet's atmosphere.

In 2019, researchers determined the atmosphere contains water vapor — the first discovery of water on a planet beyond the solar system. The concentrations may even be high enough for the planet to have clouds.

Given the success of Kepler, NASA moved to immediately replace it once the satellite ran out of fuel.

In 2018, NASA launched a new and improved version of Kepler, called the Transiting Exoplanet Survey Satellite (TESS). TESS is able to monitor 400 times more sky than Kepler, and its greater sensitivity will allow it to detect even smaller planets on stars that are much closer to Earth.

But a planet being in the right place isn't an indication it has life. A new experiment aims to correct that.

Searching for Signs of Life

Just as astronomers detected organic molecules in remote regions of the galaxy, new experiments plan to analyze the atmospheres of exoplanets to look for *biogenic gases*. These are gases created by biological processes and if observed would be telltale signatures for the presence of life.

NASA Scientists looking at the Mirror Assembly for the James Webb Space Telescope. Image Credit: *NASA/Chris Gunn*

No apparatus has yet been built with the required sensitivity to analyze atmospheres of planets beyond the solar system. But there is one device that will: the James Webb Telescope, the successor to Hubble.

The James Webb Telescope may provide definitive proof for life beyond the solar system. But we won't know for some time. The Telescope is scheduled for launch in March 2021.

Searching for Artifacts

If aliens have visited our solar system in the past, they may have left behind signs of their presence.

When humans went to the moon, we left footprints, a flag, a plaque, even bags of feces. Absent interference, these signs might survive for eons. If humanity is not careful, they may even outlast us.

If alien races perform engineering feats on planetary or stellar scales, if they leave behind probes, signaling stations, or other artifacts, it is possible we may one day discover one.

Von Neumann Probes

In the 1940s, the polymath John von Neumann invented a machine that could reproduce itself. Crossing the idea of a self-reproducing machine with a space probe resulted in the idea of von Neumann probes--space probes that could stop in a star system to reproduce and then disperse outward in all directions to each of the next closest star systems. Such probes would only need a few million years to reach every star in the galaxy.

An artifact of unknown origin is discovered buried on the Moon in “2001: A Space Odyssey”

This idea served as the basis of Arthur C. Clarke’s short story *The Sentinel*, which itself was the basis of Stanley Kubrick’s *2001: A Space Odyssey*. In the story, humans discover that aliens passing through our star system eons ago left something behind — a token of their presence in the form of a beacon on the moon.

As we turn our eyes toward the heavens, we may notice other, less subtle, clues of alien intelligence.

Megastructures

Intelligence and technology gave us the power to alter our environment.

Some of our changes are visible from space. For instance, city lights cause parts of the Earth to glow at night.

Our cities glow on the dark side of the Earth. Image Credit: NASA Earth Observatory, Robert Simmon

As our technology increases, so does our our ability to change our environment. According to the Kardashev scale, present humans rank below a *Type I* civilization. Type I civilizations make use of all the energy resources available to a planet.

The next stage according to this scale, is a *Type II* civilization — a civilization that makes use of all the energy output by their home star. This requires technology to build *stellar engines*.

Stellar engines have been envisioned as large Dyson spheres or swarms of solar cells that orbit the star to capture large fractions of its energy output.

Stellar engines would change the spectrum of the star in a very noticeable way, but none have been detected so far, though Tabby’s star has caught the imaginations of many.

Is there an alien-built megastructure around this faraway star?

The strange behavior of Tabby’s star was detected by the Kepler Space Telescope and reported by Tabetha Boyajian who noticed irregular fluctuations in the star’s brightness. The behavior remains unexplained.

Sending our Greetings

Perhaps aliens are shy. They might be waiting for us to make the first move, to signal our willingness to talk.

Since the 1970s, humans have made several overtures to invite interstellar conversation.

Broadcasts

In 1974, renovations on the giant Arecibo Radio Telescope in Puerto Rico were completed. To mark the occasion, the powerful dish was used to broadcast a message to the stars, it is known as the *Arecibo message*.

The *Arecibo Message* is man’s first attempt at making contact with an alien race.

The message was written by Frank Drake with help from Carl Sagan and others. It is meant to be easily deciphered by anyone who might intercept it. It was encoded in binary, as a series of 1,679 black and white pixels. When arranged in a grid of 73 rows by 23 columns it forms a simple pictorial diagram.

The message encodes a numbering scheme, the atomic numbers of the elements that compose our DNA, a picture of a person, and the radio antenna that broadcast the message.

A telescope of an equivalent size and sensitivity to the Arecibo Telescope on the receiving end could pick up the signal from a distance of tens of thousands of light years--on the other side of the galaxy.

Decades passed before any other deliberate attempt was made to speak to aliens. In 2012, the Arecibo Telescope was once again used to send a message.

This time it sent a reply to the part of the sky from which the Wow! signal was detected 35 years earlier. The message consisted of 10,000 Twitter messages solicited by the National Geographic Channel.

Who would have guessed that Twitter could be used to communicate with ET?

Greeting Cards

In 1977, the four outer planets Jupiter, Saturn, Uranus, and Neptune were aligned in a way that would not repeat until 2153. It provided the perfect opportunity to leave the solar system.

NASA took advantage of the opportunity and launched two robots, the

Voyager 1 and *Voyager 2* space probes. On their way out, they were boosted by stealing a tiny bit of energy from each of the four gas giants, using a technique known as a *gravitational slingshot*.

Voyager 1 & 2 Trajectories to the Outer Planets

The gravitational slingshot: trajectories of Voyager 1 and 2. Credit The JLR Group.

The speed is gained by falling in towards the planet, riding behind it as it orbits the sun. The effect slows the orbit of the planet ever so slightly. The years for each of these four planets are now a bit longer. But in slowing down Jupiter, Saturn, Uranus and Neptune, the speed of the Voyager probes was greatly boosted.

It provided them with enough speed to break free of the sun's gravity. Both probes are now free to roam the galaxy. It took over 4 decades, but as of 2018 both probes have left the solar system.

Despite being over 20 billion kilometers away, we remain in contact with them via their 23 watt radio transmitters--surprising given that's only a few times stronger than a cell phone's 3 watt transmitter.

Each of the probes contains a greeting card, in the form of a *Golden Record*.

"The Sounds of Earth" are recorded on Golden Records on board each of the Voyager Probes.

The records contain a selection of greetings in various languages, music, and sounds from nature.

> This is a present from a small, distant world, a token of our sounds, our science, our images, our music, our thoughts and our feelings. We are attempting to survive our time so we may live into yours.
>
> *— President Jimmy Carter*

The records are made of copper and plated in gold. They're designed to last for billions of years. If the sun is to one day envelop the Earth, these probes may constitute the only evidence humanity was ever here.

Solutions to Fermi's Paradox

> Two possibilities exist: either we are alone in the Universe or we are not. Both are equally terrifying.
>
> *— Arthur C. Clarke*

Thanks to Kepler, we can estimate there are 40 billion rocky planets in our galaxy with the right orbits to have liquid water. Despite this, science has yet to find solid evidence of alien life.

Our galaxy is not filled with stellar engines, radio beacons, or self-replicating probes. Nor have little green men landed at the UN to establish an embassy. Our lack of evidence is not from lack of trying. How then do we square the idea that alien life should be common with the plain fact that we have yet to find any proof?

There are many proposed answers to Fermi's Paradox. But all fall loosely into one of three categories:

1. **We are alone:** Life, or intelligent life, is rare. It's either hard to evolve, or too fragile to maintain.
2. **They isolate:** Aliens choose not to spread through the galaxy making noticeable changes to it.
3. **They are here:** Aliens are here but they conceal their presence from us.

Each of these possibilities is consistent with existing observations. To get an idea for which type of answer is most likely correct, we must review the proposed solutions in more detail.

We are Alone

Physically speaking, anything that can happen in one time or place can happen in another. All of science is based on this notion of reproducibility: given the same starting conditions, the same outcomes result.

If the universe is infinite, which by all indications it seems to be, then the possibility of life combined with an infinite extent of space statistically guarantees other life, including intelligent life, exists out there.

But this doesn’t tell us how near or far that life is. If intelligent life is so rare that it occurs on less than one star in 10^{22}, then we might be the only example in the *observable universe*.

The vast distances implied by being the only intelligence in the observable universe would, for all practical purposes, mean we are alone, even if infinite other intelligences exist across our infinite universe.

Life is Rare

The most obvious answer to Fermi’s paradox is simply that he got his math wrong. He may have overlooked some *Great Filter*--something difficult to have, obtain, or pass, but necessary for life.

For example, it might be important, but also rare, to have a large moon and a large planet like Jupiter nearby. Both help clear away and deflect debris in the inner solar system. This debris might otherwise plague Earth with perpetual planetary bombardment from asteroids, comets, and meteors.

On July 16, 1994, Jupiter took one for the team. It absorbed the full brunt of the Comet Shoemaker–Levy 9, which impacted Jupiter’s southern hemisphere at 60 kilometers a second.

This idea is known as the *Rare Earth Hypothesis*. It is a proposed solution to the Fermi Paradox.

Other proposed rare coincidences relate to the fact that Earth has a fairly active interior. This interior both creates a protective magnetic shield and also makes for geothermal vents. These vents may have played a key role in kick-starting life.

The hypothesized collision with Theia would be a relatively uncommon event. But it gave Earth her large moon. The moon creates tides, which create tide pools. Tide pools also might have played a role in the appearance of life--they provided a place for the chemical stuff of life to mix together and concentrate.

The theory remains hotly debated. The counterevidence for life being difficult is the speed at which it arose on Earth. It appeared relatively quickly, within a fraction of a billion years after Earth's oceans formed.

The other argument is statistical. For Earth to be the only planet with life, life would have to be incredibly rare.

It is conceivable that with a billion year head-start, an intelligent civilization 100 million light years away could spread to us using von Neumann probes. For Earth to be the only planet with life for a 100 million light years, life would have to occur on less than one out of every 200 trillion star systems.

More data will be required to settle the question of the Rare Earth Hypothesis. It may come within a few years, when results of surveys for biogenic gasses are completed by the James Webb Telescope.

It could also be disproved if conclusive evidence is found indicating primitive life on Mars, as suggested by chemical analysis of the bacteria-like shapes on the Allan Hills 77005 Martian meteorite.

Intelligence is Rare

According to this solution to the Paradox, life may be common, but evolving complex intelligent life is not. This would explain why we haven't heard radio signals or found alien megastructures.

Intelligence is a key factor in the success and survival of the human species. But for most of the millions of other species on this planet, it is not. Might we be biased in assuming evolution favors intelligence?

Moreover, perhaps there are barriers to evolving through the various required stages. It may be that evolving multicellular life is difficult--after all it took several billion years to get from single-celled organisms to animals.

While evolving intelligence is not inevitable, there are reasons to believe intelligence is favored. The evidence for this is convergent evolution--independent branches of the evolutionary tree separately evolved intelligence.

Outside of our own primate lineage there are: dolphins and elephants among mammals, grey parrots and crows among the birds, and even the mollusks have octopuses and cuttlefish.

Crow intelligence

A crow bends a wire into a hook to get at a piece of food.

Greater intelligence provides advantages to those species who evolve it. It enables predators to out-think their prey, and social creatures to out-think each other.

Given that intelligence has arisen multiple times from different lines of evolution, it is reasonable to suspect that it will arise so long as life can bridge the gap from single-celled life to multicellular life.

We are the First

Perhaps neither life, nor intelligence is inherently rare--we just happen to be the first.

This theory is in line with the understanding that life should be common, and intelligence should be favored by evolution. It also explains the complete lack of observational evidence for other alien civilizations.

However, the view that we're first runs counter to two facets of our cosmological understanding.

The first is that life could have arisen billions of years earlier than it did on Earth. Rocky planets formed in the first billion years after the Big Bang, and carbon was abundant after 1.5 billion years. We know carbon and other necessary elements were available then by looking at old far-away galaxies.

It's estimated that the first intelligent civilizations existed as early as 5 billion years ago. Given the rate of formation and destruction of star systems, the average extraterrestrial civilization has a 1.7 billion year head start on us. In the words of Carl Sagan, "We're Johnny-come-latelies."

The second cosmological idea this runs counter to is the *Copernican principle*. The Copernican principle says we should not expect to hold any privileged position in the universe. Statistically, its far more likely that we occupy some average or middle position, than hold a special spot like being first.

If billions of civilizations are expected to live in this universe, the odds that we're the first would correspondingly be one in billions.

Intelligence Destroys Itself

In a twist of fate, perhaps Fermi's own work provides the very answer to his question. Fermi ushered in the nuclear age, paving the way to technologies that could bring about our destruction.

Fermi's work unleashed the power of the atom on Earth.

What's scarier is that nuclear weapons are just the first of many technologies that carry such a burden.

We now contend with the risks from biological weapons, AI, nanotechnology, and environmental destruction. Some even fear that modern physics experiments like particle accelerators pose an existential risk--though this particular threat is low given that higher energy collisions occur naturally.

As doomsday technology becomes more broadly available, an ever-increasing number of hands will hover over big red buttons. It is an unstable situation. Even if there's just a 1% chance per year that one of these technologies wipes us out, that means humanity has less than a 5% chance of surviving the next 300 years.

If we're not careful, we could spell our own doom. But even if many or most intelligent species wipe themselves out, it seems unlikely that all of them do. Some should survive to inherit the stars.

> A single message from space will show that it is possible to live through technological adolescence.
>
> *— Carl Sagan*

Humanity has so far managed to survive perils of our making. It's incumbent on us to keep it that way.

They Isolate

If intelligence exists throughout the universe, we haven't noticed.

But rather than assume this is because nothing is out there, it could also be that we're not looking in the right places or for the right things. We expect aliens to conquer the universe, transforming it in their wake, but perhaps they choose to keep to themselves where they might explore the limitless depths of inner space.

They are Quiet

The search for SETI assumed radio transmission will be how alien species communicate. We expect alien civilizations to be noisy in the radio spectrum--filling the airwaves with their music and television.

But SETI is a reflection of our 1970s technology--a time when TV and radio broadcasts were the primary means of distributing information. Since then, we've largely shifted away from broadcast TV to closed-circuit and point-to-point systems: cable TV, fiber optics, satellite dishes, and Internet streaming services.

In less than a generation we've transformed our communications technologies.

These technologies offer more channels and data transmission. They're also *quiet*. An alien civilization would be unable to intercept what you watch over Netflix.

Though we still use radio, technologies are moving away from central broadcasts towards localized low-power systems, like cellular networks. Spread spectrum technologies increase the reliability and bandwidth of our transmissions, but also make them harder for outsiders to differentiate from background noise.

Even if civilizations last for millions or billions of years, the window during which they transmit openly into space with high-power radios might last only a few decades. Lasers enable more efficient and higher throughput communication, but only recently has anyone started to look for alien laser transmissions.

What about the lack of alien megastructures, like Dyson swarms?

It turns out even the technology of our science fiction is far behind the possible technology of alien civilizations.

Building a Dyson swarm around a star requires vast amounts of matter and energy. Entire planets would need to be disassembled to provide the raw materials. In the end, the Dyson swarm would capture only 0.7% of the energy present in the mass-energy of the star and it would take the entire lifetime of the star to capture.

An advanced civilization could much more easily construct a *black hole engine*. Such an engine can turn 100% of mass into energy--142 times the efficiency of fusion. Moreover, anything you feed it is fuel. Just drop something into it and the black hole turns it into pure energy in the form of *Hawking radiation*.

> A mountain-sized black hole would give off X-rays and gamma rays, at a rate of about 10 million megawatts, enough to power the world's electricity supply.
>
> — *Stephen Hawking*

A civilization using micro black holes to meet its energy needs would be very difficult to detect.

Black hole engines were inconceivable before 1974 when Hawking proved black holes radiate. The technologies available to civilizations millions of years ahead of us may be less fathomable than a black hole engine would be to an ancient Babylonian--we still don't even have a good understanding of gravity.

Space is Too Big

Space is big. So big that many believe interstellar travel is so resource and time intensive that no intelligent civilization would seriously bother with it. This would account for why we haven't been visited.

Take, for example, the fastest thing humans have ever launched: the Voyager space probes. Voyager 1 is traveling at 61,200 kilometers per hour (17 kilometers per second). Despite this speed, it will take Voyager 40,000 years to even approach a nearby star.

These speeds were obtained with chemical rockets--fundamentally the same technology as rockets used by the Chinese 800 years ago. Both burn chemicals in a confined space to blow hot gas out a nozzle.

We know it's possible to do much better. In the late 1950s, the top secret

Project Orion aimed to build a *nuclear pulse rocket* that could reach the stars in a human lifetime. This design uses a series of controlled nuclear detonations behind the vehicle to propel it forward.

Project Orion – The Atomic Bomb Powered Space Rocket

Pulsed explosion propulsion was successfully demonstrated as part of Project Orion.

In 1968, Freeman Dyson calculated that a nuclear pulse design like Orion could achieve 10% the speed of light (17,634 times faster than Voyager). At this speed we could reach the nearest star in 43 years.

But Orion would cost hundreds of billions of dollars--ten times more than the Apollo program. Moreover, the 1963 Partial Test Ban Treaty prohibited nuclear detonations in space. Project Orion was canceled in 1964.

Since then, we've found better ways of reaching the stars. One of those ideas is the *StarChip*.

The miniaturization of computers allows fully functional spacecraft, complete with cameras, sensors, controllers, and antennae to be built on a computer chip. The entire craft could weigh less than a gram.

Owing to its size, it could reach 20% the speed of light, accelerated by a collection of ground-based lasers.

Breakthrough Starshot Animation (Full)

Like the first explorers who sailed Earth's oceans, we can sail to the stars on a beam of light.

Plans for the StarChip were made in 2016. If they follow through, we could reach the nearest stars by 2050. Once built, the system can launch thousands of the StarChips. It would take the lasers only about 20 minutes to accelerate each StarChip to 20% of the speed of light (60,000 kilometers / second).

At 10% the speed of light, self-replicating von Neumann probes could cover the galaxy in a million years.

These time scales are large in human time frames, but they are small on evolutionary scales. If Earth is an indication, it takes about 5 billion years to evolve a technological species, but only 1 million years (0.02% of that time) for that species to fill the galaxy with its technology.

On evolutionary time scales, the galaxy *is* accessible. Earth itself has lapped the Milky Way 18 times in her history. Given ample time, the bigness of space is no barrier to a technological species that wants to fill the galaxy. With a 1.7 billion year head start, technological civilizations have had plenty enough time.

If space is not too big, the mystery remains. Why don't we see clear evidence of anyone's presence?

Assuming intelligent species arise and last, then only two explanations are left. They either universally decide not to spread outward, or they do spread outward but remain hidden.

They Leave our Universe

At some point aliens might discover technology that allows them to leave the universe, to transcend their physical existence, or perhaps even to create and explore realities of their own choosing.

Traveling from star system to star system would become repetitive, tedious, and, given the time scales, would be immensely boring. Having the technology to explore infinite possibilities from their own home, advanced civilizations might quickly lose interest in exploring outer space.

This solution to the Fermi Paradox is known as the *Transcension Hypothesis*.

But is leaving the physical universe possible?

Leaving the universe is possible in a figurative sense. When someone is deeply engrossed in their device, or a computer game, they are in a sense in their own reality.

Future virtual reality technology will make this truer still. Given the exponential progress of computing technology, (getting ever smaller, denser, and faster), it may soon be possible to live in virtual reality.

The best physically possible computers, those of the greatest speed and storage capacity, look little different from a black hole. To perform a computation, matter would be dropped in to the hole in a specific pattern, and the hole would perform the desired computation and return the result via Hawking radiation.

The transcension hypothesis proposes the final evolutionary stage of life is to live in black holes. Image Credit: NASA/JPL-Caltech

Black holes are in a sense detached from our universe. If an alien civilization builds black hole computers, and if they put themselves into virtual reality programs run on these computers, then in a very literal sense such a civilization will have physically left our universe--they would no longer be part of our spacetime and would live in a designer reality that's effectively causally isolated from our universe.

According to the Kardashev Scale, technological civilizations advance by consuming ever more energy: the energy of their planet, their star, and eventually their galaxy. But maybe we got it wrong.

The Barrow Scale proposes that civilizations should be ranked according to their mastery over the smallest scales.

- BI – manipulates objects on its own scale (1 meter)
- BII – manipulates genes (10^{-7} meters)
- BIII – manipulates molecules (10^{-9} meters)
- BIV – manipulates atoms (10^{-11} meters)
- BV – manipulates atomic nuclei (10^{-15} meters)
- BVI – manipulates subatomic particles (10^{-18} meters)
- BΩ – manipulates space-time structure (10^{-35} meters)

The smaller we can miniaturize technology, the faster and more efficient our computers become. Instead of exploding outward across the galaxy, civilizations might explode inward towards ever smaller dimensions.

> If the transcension hypothesis is correct, inner space, not outer space, is the final frontier for universal intelligence. Our destiny is density.
>
> *— John Smart*

Exploring reality with computers offers many benefits over exploring space with rockets and telescopes:

- **Unrestricted access:** Simulation lets them explore realms they can't get to physically. Such as past and future epochs, regions beyond the cosmological horizon, even other universes having different laws.
- **Provides faster answers:** With a fast enough computer, they could simulate the entire billion-year evolutionary history of a planet in hours, rather than wait billions of years to watch it unfold.
- **More efficient:** Vast amounts of energy are needed to accelerate even a small object to a fraction of the speed of light. That energy could be much better spent on CPU cycles.
- **Inner space exploration:** The inner-space of consciousness is just as infinite and rich as outer space--if not more so. Virtual reality can provide any possible experience, the only limit being imagination. Exploration of inner space might even be the meaning of life.

The transcension hypothesis's answer to why we don't see evidence of technological civilizations is not that they don't exist or that they universally destroy themselves, but that they have miniaturized themselves.

Accordingly, they remain undetectable to our current technology.

They are Here

Perhaps life and intelligence are common and they do spread throughout the cosmos.

Even if a technological civilization transcends and miniaturizes, there are still reasons it might spread. Chief among them is that it provides redundancy. Should a gamma ray burst or other astronomical calamity befall them, being spread out ensures their continued survival.

A technological civilization might also spread to protect itself and others. For example, to guard against the rise of malicious self-replicating probes, which if left unchecked could destroy all life in the galaxy.

Finally, a technological species might choose to protect planets harboring life, so that primitive life might enjoy the same chance to grow and develop as that alien species did before them.

Given the trajectory of increasing miniaturization of our technology, (like our 1-gram spaceship on a chip), we can now envision alien technology that has mastered the nano scale. To us, such alien ships might look like a grain of dust, but it would be a dust imbued with intelligence.

The nano-ships could contain a powerful AI or even the uploaded minds of billions of members of their race.

Given the physical upper-bounds on computer technology, an entire civilization of 100 billion souls could live on a single computer that is smaller than a grain of sand.

With control over matter at the finest scales, such a civilization could easily make many copies of these ships and be present everywhere in the galaxy. Each ship could carry a complete set of every member of that civilization.

Being so small, millions of civilizations could each have their own dust ships present in every star system of the galaxy. We would not be aware of them unless it was their desire to make their presence known.

If this technology is possible, they may already be here: hiding and watching.

Earth is Protected

If they are here, why haven't they announced themselves? How could the potentially millions of independent civilizations all agree to keep mum?

One possibility is that there is some form of galactic law, like the *Prime Directive* of Star Trek, which forbids external interference with a developing civilization.

Another possibility is a convergence of ethics--a common wisdom shared by advanced civilizations that leads them to reach similar conclusions regarding what is right and wrong. If there is a disagreement, they could simulate outcomes of different courses of actions on computers to see what is the right thing to do.

The older, more established, and more advanced civilizations could share their knowledge and experience with the younger and perhaps more rash civilizations. Young civilizations are apt to make mistakes, like launching self-replicating probes without the proper safeguards, or interfering with the development of life on a young world by not following decontamination procedures, or making first contact with a civilization that's not ready.

If anything like this is true, that would make our solar system a kind of nature preserve, or a *zoo*. Accordingly, this solution to the Fermi Paradox is known as the *Zoo Hypothesis*.

Conclusions

In this article we have reviewed:

- Our understanding of the development of life in the universe, and why it should be common
- Our efforts to find evidence of life and intelligence
- The current lack of definitive findings.

To estimate how near the closest intelligent life is, we must rely on the Drake Equation.

Even with pessimistic assumptions, such as 1% of habitable zone planets developing life, and just 1% of planets with life developing intelligence, we still expect tens of thousands of technological civilizations having arisen in our galaxy over the past billion years. If just one of those civilizations survived its period of *technological adolescence*, it could in a very short time spread throughout the galaxy.

But *we see no evidence of this*. Hence the paradox.

Whenever we encounter a paradox--two things which can't both be true--it's almost always a sign that one of our assumptions is wrong. The Fermi Paradox rests on two assumptions:

1. Technological civilizations should have arisen many times
2. If there are other technological civilizations we would see them

For the first assumption to be wrong, intelligent life must be *unbelievably rare* — so rare it verges on the impossible, appearing on 0.00000000000000000001% of star systems. It is possible intelligent life could be so rare, but it is also possible that the second assumption is wrong.

Fermi and others at the time assumed that if intelligent life has arisen before, there would be obvious signs of it. Surely they would build great power plants out of their sun, conquer the galaxy terraforming planets, and travel the galaxy in huge generation ships all while communicating by radio.

We've seen the many reasons to doubt this. Aliens, could easily be *so alien* we fail to notice them.

We can already imagine that by miniaturizing and merging with technology alien civilizations could become so small as to be practically invisible. And this is still from our limited 21st-century human perspective.

We have no concept for how an alien civilization in their 1,000,000th century might look. We know not how they spend their time, nor what values guide them. We don't even know if *civilization* is the proper word for what they become. For all we know, intelligent life may merge itself into a singular superconsciousness. Perhaps all intelligent civilizations cooperate as a single nation of intelligent beings.

One thing is clear: our knowledge regarding behaviors of far-advanced species is lacking. We know only that we don't know enough to settle the Fermi Paradox today--but perhaps we can progress by reframing the question.

What's more likely:

That each of the 10,000,000,000,000,000,000,000 other chances intelligence had to arise failed, or that humans once showed a narrow imagination for just how different future civilizations might be?

Related articles:

What is the meaning of life?

Can aging be cured?

Is the universe fine-tuned?

When will AI take over?

Share on social:

Twitter Facebook More

POSTED IN EXTRATERRESTRIALS, LIFE ·
TAGGED ALIENS, BIG QUESTION, DRAKE EQUATION, ET, FERMI PARADOX, LIFE, SETI, SPACE, UNIVERSE

Published by Jason K. Resch

View all posts by Jason K. Resch

PREV
How big is the universe?

NEXT
When will AI take over?

58 Replies to “Are we alone?”

Bhaskar
June 21, 2020 at 2:25 pm

I really like this kind of content . Keep it up jason .

LOG IN TO REPLY

Jason K. Resch
June 21, 2020 at 9:53 pm

I appreciate that. Thank you Bhaskar!

Jason

LOG IN TO REPLY

Tehzeeb UL Umaiza
July 9, 2020 at 9:45 am

It’s really good. ???
Keep it up…

LOG IN TO REPLY

Fidelis Atseku
July 13, 2020 at 1:41 pm

This Article Is Amazing It Gives A Better Understanding Of The Universe Around Us And The Existence Of Extraterrestial Life. Thanks Jayson

LOG IN TO REPLY

Jason K. Resch
July 14, 2020 at 3:36 pm

Thank you Tehzeeb and Fidelis! ?

LOG IN TO REPLY

Phil Gough
July 21, 2020 at 1:42 am

Very interesting read, so thank you very much. I enjoy this subject above any other and done in a realistic and understandable way does help.

LOG IN TO REPLY

---

warren malala
July 24, 2020 at 7:37 am

is there life on mars?????

LOG IN TO REPLY

Jason K. Resch
July 24, 2020 at 9:03 am

Hi Warren,

The evidence is not conclusive, but the apparent fossilized microbes containing mineralized organic compounds seen on Martian meteorites is strongly suggestive. It indicates that it is probable there was live on Mars at some point.

As to whether there is still life there, NASA is working on sending a DNA sequencer to Mars. This could provide a more definitive answer to your question.

See: https://www.newyorker.com/news/q-and-a/what-if-life-did-not-originate-on-earth

LOG IN TO REPLY

Matthew Stewart
July 27, 2020 at 5:27 am

Well I did skip allot of the jargon but my view is that the jackpot for the national lottery is often divided by more than one person because numbers have the chance of coming up lots of times. It is possible for there to be aliens but I'm no scientist. I know it was a freak chance for life to happen on earth but I understand the infinite monkey cage theorem. I think there is possibly a cosmological constant in the universe that causes the conditions necessary for life to occur so many times that life occurs more than once by coincidence and it would be a coincidence if there were no coincidences.
My guess is yes ET is out there on lots of planets but I don't believe it is possible to become more advanced than us but if aliens can be more advanced than us I don't think it would be wise to give them our address.

LOG IN TO REPLY

Thomas Lee Boles
August 8, 2020 at 10:29 pm

Suppose the aliens, hearing the news and "fake news" in our radio and TV broadcasts, have said to each other, "Why should we go there? Those people are all crazy!"

LOG IN TO REPLY

Jason K. Resch
August 8, 2020 at 10:54 pm

It could be worse. They might avoid us because we're made of meat: https://www.mit.edu/people/dpolicar/writing/prose/text/thinkingMeat.html

LOG IN TO REPLY

Boghos L. Artinian MD
February 9, 2021 at 4:21 am

The tunes Bach composed, cannot but have been flowing to his brain from alien channels.

LOG IN TO REPLY

Jason K. Resch
February 9, 2021 at 8:57 am

Hi Boghos,

His music certainly seems to be inspired by some higher form of being. I hope you enjoy this: https://www.youtube.com/watch?v=Tkd5uY5k63w

LOG IN TO REPLY

Kenneth

February 9, 2021 at 7:24 am

This article is helping one to think beyond where they stand. It is informing.

LOG IN TO REPLY

Jason K. Resch

February 9, 2021 at 8:58 am

Hi Kenneth,

Thank you. I am happy you found it informative!

LOG IN TO REPLY

Shawn Akhiton

February 13, 2021 at 12:17 pm

Is there life on sun????

LOG IN TO REPLY

Jason K. Resch

February 13, 2021 at 1:20 pm

Hi Shawn,

The temperatures within and on the surfaces of stars are generally speaking too high for chemical bonding to occur. Accordingly, if there is life in the stars it would not be based on chemicals like life on Earth is. There are some exotic theories about possible life forms made out of magnetic fields, plasma, or cosmic strings. But these theories remain speculative at this time. It's also possible that machine-based life forms could live on or near stars, perhaps feeding off their energy output. Red dwarf stars are cool enough that some metals (like Tungsten) could survive in solid form on the surface.

LOG IN TO REPLY

Achala

February 14, 2021 at 7:54 am

Good Article

LOG IN TO REPLY

Jason K. Resch

February 14, 2021 at 2:39 pm

Thank you Achala! I am glad you enjoyed it.

LOG IN TO REPLY

Rupam Chakma
May 16, 2021 at 2:15 pm

Great Information 🙂

LOG IN TO REPLY

Jason K. Resch
May 17, 2021 at 1:48 pm

Thank you Rupam Chakma!

LOG IN TO REPLY

Bernard
May 19, 2021 at 7:30 am

Thanks allot Jason,very informative analysis, kindly prepare for Pentagon UFO report in June 2021. I want to know the truth about alien intelligence.

LOG IN TO REPLY

Jason K. Resch
May 19, 2021 at 1:33 pm

Hi Bernard,
Thank you, I am glad you appreciated the analysis. I look forward to that June report!

LOG IN TO REPLY

James Palmer
July 11, 2021 at 9:58 am

Your articles are very good and interesting to read keep up the good work.

LOG IN TO REPLY

William Mounter
July 16, 2021 at 4:49 pm

Your article is quite interesting, it might be good to convince someone about there's aliens and such, yet, you could had talked about ufology and about the possibility of gods and spiritual beings be actually aliens and even the possibility of aliens exist at some kind of extraphysical or even beyond the spacetime, or because of technology or even because they are from other worlds or dimensions that are beyond the spacetime, I know it wasn't the focus of the article, but yet, you could answer me about that if you want so. And also, even with the idea that the told gods and spiritual beings are actually aliens that live beyond the spacetime and they have extraphysical/metaphysical means to interact with people, by visions, dreams and so on, such as happen with some supposed aliens species like Anunnas (Anunnaki), Draconians, Lyrans, Pleiadians, Sirians and so on, of course that some of the info about them are not accurate or are even made up, yet, you could answer me about them just for have some content about them on this page. And also, feel free to talk about the possibility they might exist beyond the spacetime and at some kind of extraphysical level as well.

LOG IN TO REPLY

Jason K. Resch
July 18, 2021 at 2:11 pm

Hi William,

Thank you for your kind comments and for your questions. As to the existence of other superior beings (alien civilizations, or god-like minds) that exist and could ultimately interact with life in our universe, I intend to cover this topic in an article titled “Can life survive the heat death of the universe?” It will show that simulation provides the means for advanced beings to explore other universes and realities, and even provides them the power to extract objects or beings discovered to exist in those simulations into the reality of the advanced being (or other simulated realms created by that advanced being). The mechanism of simulation provides a means to explain how an “extradimensional being” outside our universe could have the ability to influence or interact with ours — it would be roughly equivalent to how we can interact with simulated ants in “SimAnt.”

LOG IN TO REPLY

Richard
August 8, 2021 at 11:50 am

I dont know why, but i cant stop reading articles of like content. Thats how i got here. Pretty interesting. I read it all. I wish there was an exact knowledge of these things. I liked the starchip part. I think its easier to imagine aliens traveling in that form. Maybe then, they could travel the speed of light or faster? Would be crazy though. I think its possible. Though the movies potray alien ships as super giant barrels descending from the sky. I recently read something on mind uploading. Well, with the way we going, a few more centuries and the human species might get there too. Keep it up man! Love from Nigeria

LOG IN TO REPLY

Jason K. Resch
August 14, 2021 at 8:00 am

Hi Richard,

Thank you for your kind words. I have an article upcoming (the one after next) which will focus on the fundamental physical limits of technology. I agree that if things are to continue on their current pace, then we are only a few centuries away from reaching those limits. Take care!

LOG IN TO REPLY

Jacob Sifon anietie(nigeria)

September 1, 2021 at 9:17 am

Our understanding of gravity is wrong.i may not be able to write an article here but let me just share a cinch with you. If i was every experiencing pull or push as i zoom out of planet earth then gravity is more or less of a particle. What makes the world think that space is a vacuum?

LOG IN TO REPLY

Jason K. Resch

September 12, 2021 at 9:16 am

Hi Jacob,

I think many physicists now recognize our understanding of gravity is wrong (or at least incomplete) and hope to discover a workable quantized theory of gravity. String theory is a candidate, but it’s difficulty is that it doesn’t seem to point out any single theory but rather vasts numbers of different possible systems of physics.

Regarding the vacuum, this is another area where our understanding has changed significantly. Rather than viewing the vacuum as nothingness, quantum field theory views the vacuum as “something” — a series of overlapping fields of various kinds which can interact with one another.

Some of these ideas are covered in the “Is the universe fine-tuned?” article.

LOG IN TO REPLY

Guilherme Monteiro Jr.

January 26, 2022 at 6:50 pm

That is an interesting article, yet, I still think and believe that we should rally on the development of the ideas of agnosticology and deistology and even the whole idea about the Extended SETI (E-SETI), we seriously should consider looking for life beyond what we can see and physically/empirically prove, since it is very likely that aliens have already evolved into a post-physical/post-biological society or even that they’ve even developed themselves beyond physics and beyond the spacetime as well, one may say “but it violates the laws of physics” or even “it is unrealistic”, it may be somehow, but we never know if those aliens have actually developed enough technology or discovered enough ways to break out classical “laws of physics” or even break the “spacetime” and evolve into a post-physical/post-biological species, our knowledge about physics and the world is still very limited, and still we cannot exclude the existence of extranatural/supernatural things, as spiritual beings and gods, they exist beyond the spacetime and beyond physics, so yes, physics, as well as natural sciences and empirical sciences, are limited into what is physical, material and natural, and deny the existence of things beyond those is very ignorance or even purely militant atheism (atheist fanaticism), militant scientism (scientific/scientistic fanaticism), militant secularism (secular fanaticism), or militant skepticism (skeptical fanaticism), and we still cannot forget about multiverses and that we should develop means to study multiverses by post-positivist/post-empirical ways as well as search for gods, spiritual beings, and post-physical/post-biological/extraphysical lifeforms by post-positivist/post-empirical ways. I am being agnostic about that and we really should consider develop agnosticology/deistology and the whole idea/plan of E-SETI or even an analogue of E-SETI in real life.

LOG IN TO REPLY

Jason K. Resch

January 28, 2022 at 10:28 am

Hi Guilherme Monteiro Jr.,

I agree that if there are technological civilizations to be found, they have likely transcended (into nano-technological, ultra-powerful computing substrates), or perhaps even as you suggest, broken free or out of our spacetime. Therefore our current SETI efforts are quite unlikely to succeed because we are looking for the wrong signs. Based on what you’ve written so far I think you will very much enjoy my planned article on “Does God Exist?” — it will cover quite a number of these ideas and possibilities.

LOG IN TO REPLY

Guilherme Monteiro Jr.

January 27, 2022 at 8:57 am

I simply get really mad and angry with people saying like there aren’t aliens among us and call people who believe there are aliens among us and that they can talk with aliens are “insane people” and such, I’ve talked with so many of them and I can conclude they aren’t that insane, I mean, yeah, maybe UFOs are aliens or not, but we cannot deny that aliens might and probably exist beyond physics and beyond the spacetime, aliens or are highly evolved/advanced civilizations that reached a post-physical level of existence or they simply exist at spiritual level or both of them. It makes me insane to see the massive number of atheist zealots and skeptical zealots who keep mocking those people and making ‘memes’ (propaganda) against them. Aliens indeed exist, and we shouldn’t allow a bunch of atheist zealots, skeptical zealots and scientific zealots (or scientistic zealots) like Richard Dawkins, Sam Harris, Bill Nye, Richard Wiseman, Daniel Foschetti Gontijo, Luciano Lobato, Bibi Bailas, Jason Ferrer, Dave Farina, and so many others (as the ones on that crappy website named Quora, and the ones on social media) to affech those people in bad ways, debunkism and the culture of debunking are as bad as cancel culture and most of the so called “debunkings” are very pointless and filled with false statements, and logical fallacies are relative as well and often alleged fallacies are not fallacious at all, besides the concepts/terms of ‘nonsense’ and ‘bullsh1t’ are also relative and subjective as well in the sense they often mean something they person disagree the most or do not believe the most, as well as related concepts/terms like delusion, irrationality, illogic, stupidity and others, and do not forget that rationality and logic are relative and subjective in the sence they depend of the experiences of each person and of the reality of each person, much better of those atheist zealots and scientific zealots who believe their views are objective when they aren't and such kind of people. And as I told in the other comment, the idea of deistology, agnosticology and E-SETI are valid, and we should use epistemological pluralism for study those things and develop spiritual sciences as well. I will still be a harsh critic of atheism, as well as a harsh critic of science, skepticism, debunkism, and so many other things out there, and no one will stop me, regardless I am having Asperger's syndrome with some psychotic traits (which is normal for some aspies and people with autism), and being unable to write books and long articles as well.

LOG IN TO REPLY

Jason K. Resch

January 28, 2022 at 10:36 am

Hi Guilherme Monteiro Jr.,

Indeed, the existence of other life and other intelligent life is not the least bit controversial given our current scientific knowledge. Science has gathered strong evidence for both the idea that our universe is spatially infinite (the concordance model), as well as the idea that there are infinite big bangs (eternal inflation), and not to mention the idea that there is a multiverse (quantum mechanics).

Any of these three ideas taken alone is sufficient to establish beyond doubt other intelligent life exists out there. The only uncertainty is how near or far that next intelligent is from us. Max Tegmark has calculated an upper bound: https://space.mit.edu/home/tegmark/PDF/multiverse_sciam.pdf

As for writing long articles or books, I find it helpful to break it down into smaller steps. Write an outline first, then write a few paragraphs for each part of the outline. This can give you a chapter or article. Do this for enough chapters and you have a book.

LOG IN TO REPLY

Guilherme Monteiro Jr.

January 28, 2022 at 3:01 pm

I understand what you mean, anyway, the ideas/notions of agnosticology and deistology, as well as E-SETI, spiritual sciences and post-empirical/post-positivist sciences are very necessary to be developed and embraced, it is very necessary to start with the development of deistology/agnosticology (both are the same thing, the only difference is the philosophy behind them), the analogue of E-SETI (but yet, the development of post-physical telescopes and post-physical radio would be an issue, but it could be possible with massive investments and studies), spiritual sciences (since things related to the spirit and to the consciousness should have their own studying methods), and post-empirical/post-positivist sciences (yes, it is very necessary and needed nowadays, epistemological pluralism is necessary nowadays), and people should stop thinking that scientific evidences prove everything when they don't prove anything, the only thing scientific evidences prove is how 'X is related to Y' and nothing else (same for objective evidences), and most people cannot see it, that is the why we have this wave of scientism and scientific fanaticism nowadays (as well as militant atheism, atheist fanaticism, militant skepticism and skeptical fanaticism). And yes, people who often talking with aliens are not delusional at all and not insane at all, but they might have some form of autism and such kinds of things, but the relationship with their mental illnesses with their contacts is not like a causal relationship, but most like a simple relationship, since it would be just like say that the DNA of humans and the DNA of a Banana is 95% similar and yet we do not have a peel nor we are yellow or have the same texture of a banana. And also, people who talk with aliens are just like people who talks with gods and spiritual beings, I do not deny that most of them are fake or just trying to get famous and get money, but there are genuine ones as I am with the Anunnas (I can talk with Nammu, Anu, Utu, Ishtar, Ki, Nergal, Enki, Enlil, Nanar and some others, but the ones I mentioned are the ones I talk with the most), and I know it is subjective and personal, that is the why I wrote about agnosticology/deistology and about spiritual sciences and epistemological pluralism. And also, aliens and gods, as well as spiritual beings and highly evolved beings, do not show themselves to humans, simply because humans are very primitive, it is just you see popular culture, filled with tribalism, speciesism, xenospeciesism (also species xenophobia), theospeciesism, misotheism, antitheism, demonsism, deicidism, militant speciesism, militant xenospeciesism, militant misotheism, human supremacism, human nationalism, and others, and people still liking it and even worshipping it (pop culture paganism is an example of that), and do not forget capitalism, militant atheism, scientism, scientific fanaticism, scientific fundamentalism, scientific extremism, atheist fanaticism, atheist fundamentalism, atheist extremism, antitheism, skepticism, skeptical fanaticism, skeptical fundamentalism, skeptical extremism, secular humanism, debunkism, neoliberalism, anarcho-capitalism, right-wing libertarianism, objectivism, classical transhumanism, neoconservatism, and so many others, and it has to change for aliens, gods, spiritual beings, angelics, celestials, and highly evolved beings decide to interact with humans in better and direct ways. Humans are so far from become a species of highly evolved beings as aliens and gods are, but still humans can develop means to do that and how to do it, and what I've said before are some examples of that.

LOG IN TO REPLY

Bruno Martins Sousa

January 29, 2022 at 6:08 am

I do agree with Guilherme Monteiro Jr. when he mentioned about deistology/agnosticology, E-SETI, spiritual sciences and aliens, the development of such areas is a must and very necessary nowadays, mainly the whole idea of post-empirical/post-positivist sciences and spiritual sciences as well, the idea of search for gods, spiritual beings and extraphysical lifeforms as we search for aliens on SETI is something very necessary nowadays, the idea of E-SETI is valid, regardless it was created by an AI in that Bellard website. Anyway, what Monteiro said about gods and spiritual beings, I do agree with him, mainly about talking with them, I am an agnostic, despite I am also very closed to anunnakism, and I also had some experiences with the Anunnas as well, and I indeed agree with Monteiro when he said science is limited and such, science fails to study about those things and things related to spirituality simply because they are outside the domains of natural sciences and hard sciences, that is the why the development of spiritual sciences, post-empirical sciences and epistemological pluralism is something necessary to the condition we are living in nowadays, agnosticology is also a good idea that should be put in practice, as well as conscientiology, spiritology, divinology and such areas, we should call them "pseudoscience", because besides pseudoscience be a bad category and even a flawed category, it would also mean include soft sciences, social sciences, humanities, philosophy, metaphysics and all else as "pseudosciences", it is just a very bad category and very flawed category as well. It is just very sad that Monteiro cannot express himself well outside Quozio, but that is fine, one day in a near future Quozio will leak his quotes somewhere else or even someone else will do it, but that is fine anyway.

LOG IN TO REPLY

Guilherme Monteiro Jr.

January 29, 2022 at 8:14 am

Criticism of atheism, criticism of antitheism, criticism of irreligion, criticism of skepticism, criticism of rationalism, criticism of materialism, criticism of positivism, criticism of neopositivism, criticism of eliminativism, criticism of scientism, and criticism of science are a must nowadays and people should be encouraged to do those things, me, Guilherme Antonio Monteiro Gomes Junior, is a harsh critic of those things, yet I am alone in that and I do not have enough people for support me on that, but I still do my best on doing that, I do not mind to being cyberstalked or even IP tracked because of those things, it is something I do with pleasure and that I do for my own best and because of my Asperger's syndrome with psychotic symptoms, I've already wrote a ton of Quotes and articles and I do not regret doing so, despite I cannot write long articles, since I am only 21 and I do not know how to argue/debate well, I am very bad at arguing and debating, and I seriously hope someone will help my theories and ideas/notions/concepts and develop them even more, increasing the criticism of atheism, criticism of antitheism, criticism of irreligion, criticism of skepticism, criticism of rationalism, criticism of materialism, criticism of positivism, criticism of neopositivism, criticism of eliminativism, criticism of scientism, and criticism of science, as well as the criticism of the concept of pseudoscience, criticism of the concept of antiscience, criticism of the concept of science denial, criticism of the concept of bullsh1t, criticism of the concept of nonsense, criticism of the concept of ridiculous/ludicrous, criticism of the concepts of based and cringe, criticism of the concept of bad science, criticism of the concept of logical fallacy, criticism of the concept of pseudophilosophy, criticism of the concept of delusion, criticism of the concept of scientific evidence, criticism of the concept of objective evidence, criticism of the concept of mumbojumbo, criticism of the concept of superstition, criticism of the concept of evidence, criticism of the concept of credulity, criticism of the concept of cult, criticism of the concept of irrationality, criticism of the concept of illogic, criticism of misotheism, criticism of theospeciesism, criticism of xenospeciesism, criticism of speciesism, criticism of classical transhumanism, criticism of microchipism (criticism of human microchips), criticism of carlinism, criticism of anti-postmodernism, criticism of psychiatry, criticism of psychology, criticism of neuroscience, criticism of psychoatheism, criticism of neuroatheism, criticism of social media, criticism of the Internet, criticism of smartphones, criticism of debunking, criticism of capitalism, criticism of liberalism, criticism of neoliberalism, criticism of libertarianism, criticism of anarcho-capitalism, criticism of individualism, criticism of anti-collectivism, criticism of anti-communism, criticism of popular culture, criticism of videogames, criticism of movies, criticism of the scientific method, and so many others. I do not regret making such kinds of criticisms and I would even do so much more if I had resources and I could develop arguments well. Anyway, I think I've made enough for now, despite I am just 21 years old and I've got enough problems with my parents because of that, but still, I should focus on my gemology studies (I am in the third period of gemology), despite I would like to study something else that doesn't have calculations and such, crystallography and mineralogy are really hard to study, at least for me, and also, I really should focus on my studies and stop wasting my time on the Internet, despite it is hard because of the pandemic, anyway, I seriously should focus on my college and stop wasting time on the Internet, and learn new languages as well, I already know how to speak Portuguese, English, Spanish, French and Italian, and it is very good for me, anyway, I really like the concepts I've theorized and wrote, and I seriously hope I will be able to live a good life and find a way to deal with the whole cyberstalking and IP tracking things, but I know it will end soon as possible, but it will take some time. Anyway, I wish my best for you and that you publish your book about the Science of the Soul as soon as possible.

LOG IN TO REPLY

Guilherme Monteiro Jr.

January 29, 2022 at 9:00 am

We are not alone, that is very clear, there are aliens, spiritual beings, divine beings, gods, celestials, angelics, highly evolved beings and so many other kinds of beings among us, but those atheist zealots, skeptical zealots, scientistic zealots, rationalist zealots, and fanatical debunkers like the ones on Quora, Facebook, Youtube, Instagram, VK, TikTok, Reddit, social media as a whole, and in websites like Wikipedia, RationalWiki, Skeptical Science, Revista Questão de Ciência, Universo Racionalista, and so many others out there, and mentioning names of people like Richard Dawkins, Sam Harris, Daniel Dennett, Michael Shermer, Richard Wiseman, Daniel Foschetti Gontijo, Bill Nye, Bibi Bailas, Dave Farina, Luciano Lobato, Bruno Farias, Carlos Orsi, and so many other names around there, cannot accept it nor even understand it as well, that is the why I am a harsh critic of atheism, skepticism, rationalism, scientism, science and debunkism, because the conditions of this world leaded me to become like that, without mention the ones who make fun of aliens and put them as evil, as Hollywood, Bethesda, Santa Monica Studio, Activision Blizzard, Ubisoft, Games Workshop, ID Software, 3D Realms, and so many others out there. Pure mix of atheist fanaticism, skeptical fanaticism, scientistic/scientific fanaticism, rationalist fanaticism, and fanatical debunkism with speciesism, xenospeciesism, theospeciesism, human supremacism, species xenophobia, tribalism and human nationalism. That is the why I am what I am now and I have no regrets for that, except for my family and for my studies.

LOG IN TO REPLY

Guilherme Monteiro Jr.

January 29, 2022 at 10:13 am

Those atheist zealots, scientistic zealots, skeptical zealots and rationalist zealots will never acccept there are aliens, spiritual beings, divine beings, gods, celestials, angelics, highly evolved beings and so many other kinds of beings among us, and it is very clear now, and there is nothing I can do or we can do about them, except question them and criticize them, thanks to the atheist zealot, skeptical zealot, scientistic zealot and neuroatheist of Daniel Foschetti Gontijo and of the enlightenment centrist and atheist/scientistic/skeptical zealot of Bibi Bailas and that enlightenment centrist and scientistic spiritual-materialist of @espiritualidademercantil (which I do not even know her name since he never said her name) I became as I am now and radicalized myself a lot, not just because of them, Quora also helped me a lot and Google too, and people often disagreeing with me and questioning me and me being very bad at arguing and debating, anyway, I will continue my criticisms towards them and I will never give up doing so. I've done a lot of things already related to such criticisms and questionings and I should do a lot more, those atheist zealots, skeptical zealots and scientistic zealots must be countered before it is too late, and my radicalization shows it very well, maybe I should take my meds even more or even stop using so much Internet, but I prefer post those kind of comments here than get myself even more hacked and IP tracked by spamming questions on Quora in 2-4 different languages and still get very few answers or get a lot of very condescending, passive-aggressive, sarcastic, and low quality answers on Quora, mainly answers by atheist zealots, scientistic zealots, skeptical zealots, atheist extremists, scientistic extremists, and skeptical extremists, and still the atheist-scientistic-skeptical search engine of Google putting their answers on the top-3 results and even as featured snippets that are worse than fake news.

LOG IN TO REPLY

Greg Maland

February 19, 2022 at 11:40 am

To be respected as a scientist (or an intellectual) in modern society, one must meet certain requirements, several of which relate to closed-mindedness about the most important and interesting concepts. One must deny the existence of God, and hold firm materialist views about death. One must dismiss, downplay or ignore the role of consciousness outside of a very circumscribed scope. And one must deny the potential validity all evidence of intelligent beings from other parts of the universe.

Despite a very significant amount of evidence, of greatly varying quality, that extraterrestrial beings have interacted with our planet, most scientists speak as though there is literally no evidence whatsoever. I believe that, even if a public scientist had a life-changing personal experience involving extraterrestrials, he or she would never breathe a word of it to anyone, knowing that doing such would immediately destroy their career. Such things are absolute heresy in the modern scientific establishment, which clearly is less interested in science than it is in getting new grants and keeping a certain level of respectability in the scientific community.

Because science has erected a forbidding fortress wall around the topic of extraterrestrial life, it has in large part dismissed the subject entirely. And in society, even displaying curiosity or openness towards these ideas is risking being considered insane or stupid. I think it's tragic that as a society, we so often end up professing positions on matters which we do not actually believe, and this trend seems to be worsening over time, as more and more positions are considered off limits. How can we make the most of all of our tools and intellectual heritage if we are so cowardly and self-interested? In the name of science, scientists are destroying the core of science itself, which is free and open inquiry. This, despite all the history of the greatest scientists risking not only their reputations, but also their precious lives, to pursue truth.

LOG IN TO REPLY

Guilherme Monteiro Jr.

February 25, 2022 at 1:21 pm

Maybe a lot of things I told in my other comments were basically me having panic attacks due my panic disorders, but sertraline is working well on me already (together with risperidone), anyway, what I have said is that we need to fight militant atheism, militant skepticism,militant scientism, militant rationalism, and neopositivism, as well as fight xenospeciesism, deicidism, kratosism, speciesism, theospeciesism, atheist fanaticism, scientific fanaticism and such things. And yeah, aliens indeed exist and they are among us, I am an example of that, I used to talk with the Anunnaki and with the other Anunnaki gods, but sadly now they are punishing me so harshly (mainly Dingir Utu), but it is alright anyway, the thing is we need to fight those things I told before… Militant atheism, militant skepticism,militant scientism, militant rationalism, and neopositivism, xenospeciesism, deicidism, kratosism, speciesism, theospeciesism, atheist fanaticism, scientific fanaticism and such, if we want aliens to interact with humans even more. And also humans are supposed to become a species of highly evolved beings and to reach a high level of being as well, that is the why we must counter militant atheism and such. I am still very misanthropic because of that, not much as before, but still a lot, but with the time I will reduce my misanthropy. Anyway, what I have said about Quora and the people I have mentioned on the previous comments is true, as well as what I have told in this comment before (mainly about militant atheism and about the Anunnaki). And yes, we need to develop E-SETI and agnosticology/deistology as well, even it would take a lot of time for do that and even their technologies would be impossible to be developed, since Dingir Anu explained me while talking to me by my friend Vinicius Oliveira and then with myself alone, that it is impossible or nearly impossible to produce Anunnaki technology on Earth, and develop E-SETI and agnosticology/deistology on Earth are very likely to fail or to do not have big progress over decades, but anyway, it is still valid to be done, as well as the extraphysical/post-physical/post-spacetime technologies and the whole technoquantumism (technoquantum body system, quantum computer brain, quantum computer body system and such) thing, and yeah, Quora sucks and Quora, as well as Big Think, RationalWiki, Skeptical Science and so many others, are just filled with atheist zealots and scientific zealots. And the development of spiritual sciences, extraphysical sciences and post-empirical sciences are full valid and necessary to be developed nowadays. And please Jason, make the comments public again (without the need of having a Dashboard account), but yeah, only if you want, of course.

LOG IN TO REPLY

Guilherme Monteiro Jr.

February 25, 2022 at 3:39 pm

As an agnostic myself, I say that there are a lot of chances of gods, spiritual beings, post-physical / post-spacetime / extraphysical lifeforms and aliens themselves to exist; with a high chance that aliens actually exist beyond the spacetime and beyond the physical/material. It is necessary to think beyond natural sciences to understand that, that is the why of spiritual sciences, agnosticology and of extraphysics on that, as well as the Extraphysical Aliens Theory (EPAT). Militant atheism, militant skepticism, militant scientism, antitheism and neopositivism must be dealt as religious fundamentalism is dealt, that is it. And also, it is very necessary to explain people that the idea there are aliens among us and that there is an afterlife is more than just "loofy//loosy hypothesis" as people on Quora says. We need to develop what I said early in this comment. And also, there is a big chance there are gods, spiritual beings, post-physical / post-spacetime / extraphysical lifeforms and aliens among us and interacting with us already.

LOG IN TO REPLY

Guilherme Monteiro Jr.

February 25, 2022 at 5:27 pm

Of course there are aliens, gods, spiritual beings and such, this whole "there's just species of men" thing is actually a very form of militant atheism, antitheism and xenospeiciesm. Starseeds are actually very sane people, just like plurals and LGBTQI+. Some starseeds are legit and really have spiritual experiences about what they actually are and they are just like plurals and LGBTQI+ ones.

LOG IN TO REPLY

Guilherme Monteiro Jr.

February 26, 2022 at 3:44 pm

Of course aliens exist, as well as gods, spiritual beings, highly evolved beings, post-physical lifeforms and extraphysical lifeforms as a whole, but they are actually more worried about their heavens, worlds, planets, species and civilizations than they are with Earth, as an agnostic myself, former anunnakist (or even agnostic anunnakist depending of how you see it), I have had enough experiences with them for conclude that, they see Earth just as we (humans) see insects, or, better saying, just as the West sees Ukraine nowdays (26 february, 2022), it is just like that, and all experiences with them are subjective, it is impossible to find evidence for them outside the subjective realm, because they aren't physical nor material, but extraphysical and extramaterial, of course there might be some of them in the physical/material realm, but most of them are already at extraphysical/extramaterial level, and also, natural sciences (hard sciences and empirical sciences) cannot prove nor disprove their existence, as well as natural sciences cannot prove nor disprove the existence of the soul/spirit, the existence of afterlife, the nature of astral projection, mediumship, lucid dreaming, meditation, spiritual effects, NDEs and such things, except the physical effects of them over people, and scientific evidence doesn't prove/mean anything as well, except that "x is related to y" and such things. Our human society need to get away of this atheist fanaticism and this scientific fanaticism that is mining science and the Internet and that is having literally the same effect as religious fundamentalism in most of the cases, militant atheism, militant scientism, neopositivism and antitheism are as bad as religious fundamentalism. And also, it is very necessary to have a good critical thinking about that, and critical thinking is not the same as atheism, and it is possible to seeit in practice, militant atheists keep using "critical thinking" in their favor, when critical thinking can also be used against atheism (mainly militant atheism), that is the why critical thinking is in thesis, a relative and subjective thing, as well as logic and rationality. And about the xenospeciesism and human supremacist thing, yes, it is true, humans are very tribalist in most of the cases, and humans should overcome that, humans should overcome that and become just like highly evolved beings are, and yes, gods and spiritual beings are highly evolved beings somehow, and it is completely fine. Of course they intervene on our world, but it is just like the West is intervening in (actually helping) Ukraine by now (26 february, 2022), and it is already a good thing, depending of how you see it. And they laugh when humans put them as bosses/enemies/villains on videogames/movies/series/books and such on popular culture, those are purely fictional and even say more about humans than say about themselves, just like most alternate history things are, yes, gods, spiritual beings and highly evolved beings see popular culture just as we see alternate history in most of cases, and some of those beings also make a lot of fun with humans as well and even jokes about humans too. Same apply for mythology, yes, most myths are just like that, some of them happened in another worlds and dimensions, but most of them are purely made up by humans, just as most of Mesopotamian myths about the Anunnaki, the Anunnaki are far different than they are on Sumerian and Mesopotamian myths, same way for the other pantheons worldwide, despite some myths happened in other worlds and dimensions, but most of them are just like as I said before here. Anyway, that is what I had to say here, religion and spirituality are completely valid and everyone have their own, but yeah, antitheism (militant atheism and neopositivism included) and religious fundamentalism should be equally countered and should not be tolerated at all, same way for xenospeciesism, theospeciesism, misotheism, deicidism, kratosism and human supremacism on popular culture and such, and about deicidism, theospeciesism, misotheism and kratosism; gods, divine beings, angelics, celestials and related beings actually laugh of it and even make fun of it, since it is very speciesist and even distort how they are completely, as well as gods and such are far different than how deicidists, kratosists, misotheists and theospeciesists think they are, and it is something very clear to be realized. Anyway, that is what I had to say for now, and I seriously felt and thought I had to write this, feel free to disagree with me and say what you think about it here or anywhere you want. And also, yes, rationality, logic, thinking, evidence and related are relative and subjective, because they depend of the experiences of the person in question, as well as delusion and illusion relative and subjective in the sence they cannot be determined by reality itself (mainly delusion) since reality is relative and subjective, as well as evidence, thinking, logic, rationality and related. So, delusion is only absolute (or delusion itself) when it provokes distress and such things, and illusion is only absolute when it is something that can be externally seen to be illusion.

LOG IN TO REPLY

Guilherme Monteiro Jr.

March 1, 2022 at 6:52 am

I'm an agnostic now, and it's only really worth believing in your gods and spiritual beings if you have a direct or practical interaction with them, however subjective. Otherwise, better be agnostic and live your own human life. Why should I continue to believe in my old gods (the Anunnaki) if they've already dismissed me and left me alone? I'm really going to become agnostic and obey them. I don't live in their paradise or one of their worlds that has their culture and genetics. So I'm going to go agnostic and hope that, who knows, one day they'll decide to directly interact with Earth and do something interesting with Earth. Since I don't live in any of the heavens of the gods (especially the Anunnaki one), I don't have spiritual experiences with the gods anymore or I have very little from time to time, and they also allowed me to become an agnostic and talked for months about making me become an agnostic. So… Why shouldn't I become agnostic? I'm going to go agnostic and live my life on Earth once and for all and enjoy it while I'm alive and young. The gods are in their paradises taking care of your worlds, empires, species and civilizations. Concerns about Earth come in the background or even the third and fourth. Earth for them, like the physical worlds, is the last thing for them to think about. For the divine plane, the spiritual plane and the astral plane are much more important than the physical plane for the gods and their civilizations. That's why people should be agnostic and only those who have some connection with the gods and/or spiritual beings and need them to live in some way should be religious/spiritual.

LOG IN TO REPLY

Guilherme Monteiro Jr.

March 1, 2022 at 7:48 am

All pantheons, at least most pantheons, have their own civilization, species and empire, such as the Anunna Empire, the Aesir Empire, the Netjeru Empire, the Deva Empire, the Olympian Empire, the Kami Empire… And they also have their own worlds and heavens, like the An's Heaven. And they are also powerful universal forces, and their heavens are made by pure energy and by things it is nearly impossible to describe how it is actually, humans can only access versions of them, not the original ones, that is it. And they have more important things to care than Earth itself, such as their heavens, their worlds, their empires, their species, their civilizations, their technologies… And also, they are highly evolved beings as well and they are multidimensional beings as well, and they are very powerful and they have a lot of selves scattered around the world, universe, multiverse and multidimensions, that is it. I am an agnostic now yes, and I will only return to believe in them completely (in the sense of worshiping and live with them) or if they return talking to me actively or if I go to live in their heavens. Otherwise, it will be just as I said in my comment about I'm an agnostic now. Gods, spiritual beings, post-physical/extraphysical lifeforms and highly evolved beings as a whole deserve respect just as physical aliens and other sapient species deserve respect. And yeah, it is sad to see a lot of tribalism, human supremacism, species xenophobia, speciesism, xenospeciesism, theospeciesism, misotheism, deicidism, demonsism, ragnarokism, and kratosism on popular culture and on popular media as a whole. Humans are far from becoming a species of highly evolved beings, as well as humans still have militant atheism, militant skepticism, atheist fanaticism, scientific fanaticism and neopositivism. So humans won't become a species of highly evolved beings nor highly evolved beings will objectively/directly interact with humans too early.

LOG IN TO REPLY

Guilherme Monteiro Jr.

March 1, 2022 at 12:18 pm

The Anunnaki are species of highly evolved beings and a divine/spiritual species and they have their own empire, the Anunna Empire, and they come from a divine world named An's Heaven (or An in the Anunna language, Anunna language and Sumerian language are very similar, same grammar and same structure, only a different vocabulary between both of them, something like Serbian and Croatian, not really but similar, and the Anunna cuneiform is kinda different than Sumerian one, it is basically UR III but simplified and with some differences, but same letters/vowels/consonants and they also have an alphabet version of their Anunna cuneiform as well used for programming and diplomatic/commercial/political purposes with other species). The Anunnaki (also the Anunna or Anunnas) are a very strong species and their leader is Anu (or An) and his family (also An's Family, An's Dinasty, An's House, Dingir Dinasty or House of Dingir), and the hypothetical successor of An is the Anunna Council (the royal council of An's Heaven and of the Anunna Empire) for avoid succession problems and issues with his family. The Anunnaki are monarchocommunists to monarchocommunalists and their political system is called the "Anunna System" or the "Anunnaki System" (it is basically monarchy with a community-based economy that can be described as communism/communalism, despite it allows trade and commerce depending of the region and world). The Anunna Empire had two warlord eras and four to five civil wars, and now the Anunna Empire is limited to divine An's Heaven, the Anunna divine worlds and some spiritual worlds, since after the last civil war the Anunna Empire was completely destroyed physically and collapsed somehow but it is back nowadays, and there are a lot of Imperial Anunna breakaway states out there, and the Anunna civil war was between three main factions, Anunna Imperials, Anunna Democrats/Republicans and Anunna Autocrats/Ultranationalists; and the last civil war ended with physical An's Heaven being destroyed by Anunna radical democrats and Anu and his family leaving physical An's Heaven to the divine An's Heaven, and it leaded into the utter destruction of the most Anunna physical worlds since Anunna radical democrats were just like Holy Russian Empire from TNO with anyone who wasn't an Anunna radical democrat, and it made most of Anunna worlds fall into "Radio Silence" (the TNO one). But now Anu and his family are fine and they are trying to reconstruct the Anunna Empire starting by their divine worlds and spiritual worlds. Nibiru is/was just an Anunnaki base, nothing more than that. And the antediluvian kings and things and the flood happened in another world (an anunna spiritual version of Earth), and most of Sumerian and Mesopotamian myths are far different than how Anunnas actually are, such as Epic of Gilgamesh and Enuma Elish. Anyway, I am not here for debate/argue with anyone, I just wrote that because the Anunnaki asked me for do that and I am very agnostic now but they asked me for do it, mainly Anu, Utu and Nammu. Anyway, my Anunnaki name is Dumugian, Anu told me that by my friend Vinicius Oliveira and then Anu confirmed it myself, and now I will follow my life as an agnostic who really like the Anunnaki and the empires and civilizations of gods and spiritual beings. And of course, countering militant atheism, militant skepticism, militant scientism and neopositivism. Feel free to disagree with me and write what you think, since I can not write a book about that, I wrote this comment, I hope someone will write a book with all of that I said here but it is something for the near future. Thanks for the attention and silim! Silima hemenzen!

LOG IN TO REPLY

Guilherme Monteiro Jr.

March 2, 2022 at 4:06 am

About the part related to “evidence” and “modern scholarship”, there are things that are purely subjective and purely spiritual, and you can’t find “objective” evidence nor even good archeological registers about that, just as what I have wrote about the Anunna Empire and such, it is very alright to have your own subjective and spiritual path inside any faith you want (since this faith is not like pop culture paganism that it is already a problematic thing very like New Age movement and related, besides it has some reasoning and way of explain inside it, I know rationality, reason and logic are relative and subjective, but you still need to have your own). Like, you can believe that all ancient pantheons are Anunnaki as well as you can believe each of them have their own species, civilizations and empires, it is completely okay to do that and it is not delusional at all (delusion is very relative, since what can be delusional for a person might not be delusional for another, since it is not causing distress nor even bringing harm to the person in question, his family, his friends and his community, same for sanity/insanity, and evidence is relative and subjective as well in most cases). And also, you should write about some historical figures that look to be Anunnaki. And also, as I have said in other comment on your blog, the Anunnaki are far different than Mesopotamian/Sumerian mythology (like Epic of Gilgamesh and Enuma Elish), and anyone with connection with the Anunnaki can realize it well, but the problem is to realize that, since most of people are still with it of “evidence” and “scholarship”, it is not like hard sciences and medical sciences, no, it is not, things at the spiritual, esoteric and even religious and metaphysical/extraphysical realms are not the same as hard sciences and medical sciences, one can believe in whatever he wants since it is like I told in my other comment, but it is hard to people to realize that. Spiritual sciences are different from hard sciences, and it is very simple can’t realize. The Anunnaki gods are also far different than Sumerian/Mesopotamian mythology, like Anu is not that cold and he is actually very kind and friendly and he strongly respects the Anunna Empire and the self-determination of Anunna species and the species that are part of the Anunna Empire; Nammu/Tiamat is very motherly at the same time she can be a monster when provoked; Enlil is not evil nor bad as Mesopotamian myths says, but rather he wants the best for the Anunna Empire and the Anunna species and he has his own ways; Enki has some very shady ways to act, even more than Enlil itself, but he knows how to do it without being spotted and when spotted to do not make it look shady at all, and he loves to have children and he wants the Anunna Empire to be the most jingoist and nationalist as possible; Utu knows how to do justice and he is further than just "eye per an eye" and he knows how to do justice and what kind of justice can be applied, despite he knows how to be fair and what to say when needed; Nergal and Ereshkigal indeed have their own world and realm, and they often go to An's Heaven when they want, despite their realm is an Independent Anunna Imperial Realm by saying; Ninhursag is literally Jezebel from Phoenicia (not an affront to Ninhursag, but the way she acts is literally like that); and Dumuzi is also very friendly and he knows what to say and when to say, same way for Nanar; and Inanna can be very honest when necessary and even know how to help someone when necessary. Those are some of the characteristics I had to say here, of course it is all relative and subjective, as well as what I wrote about the Anunna Empire and the Anunna worlds and such, but yet it is a valid form of Sumerian/Mesopotamian/Anunnaki neopaganism, and we need to have this plurality nowadays and do not be dependent of "evidence" and "scholarship/academia" because it will only makes you crazy and it is purely scientism (scientific imperialism and militant scientism included) and neopositivism, and for someone who is antineopositivist and postmodernist, it is acceptable to reject those forms of scientism and neopositivism in all areas. Believe in what makes you feel well and develop your own explanations, reasoning, logic and rationality for that, feel free to do whatever you want and be happy and free. Silim! Feel free to disagree with my comments and say whatever you think and want about that, I am open to that. Those are my own spiritual experiences and religious experiences related to the Anunna and the Anunna Empire, so feel free to do that. Since you aren't a militant atheist (also atheist zealot or atheist extremist) or an antitheist, otherwise, you are free to disagree with me and say what you think and want about that.

LOG IN TO REPLY

Guilherme Monteiro Jr.

March 3, 2022 at 7:00 am

It is clear that aliens are among us and interact with us, various spiritual and religious experiences out there and it is increasingly clear the existence of gods, spiritual beings and extraphysical life forms… But only atheist fanatics and scientist fanatics can deny it. that… After all, it's impossible to argue with an atheist fanatic or a scientific fanatic, and yes you have to ignore them, the fetish of militant atheism (or the Stenger fetish or the Dawkins fetish) is something more sick than the fetish from Jakarta, and a lot of people ignore it, or don't want to see it, or just pass the buck. And that is why the critique of atheism and the critique of science (together the critique of scientism, critique of positivism/neopositivism, critique of materialism, critique of rationalism, and critique of skepticism) are so necessary today. The critique of atheism and the critique of science are quite necessary today, as are the critique of skepticism, the critique of antitheism, the critique of scientism, the critique of materialism, the critique of physicalism, the critique of positivism, the critique of neopositivism , the critique of rationalism, the critique of secularism, the critique of speciesism, the critique of xenospecism, the critique of theospeciesism, the critique of misotheism, the critique of the scientific method, the critique of intellectualism, the critique of eliminativism, the critique of orange stage of spiral dynamics, critique of capitalism, critique of liberalism, critique of neoliberalism, critique of the concept of pseudoscience, critique of the concept of antiscience, critique of the concept of denialism, critique of the concept of scientific denialism, critique of the concept of delusion, criticism of the concept of evidence, criticism of the concept of irrationality, criticism of the concept of illogicality, concept of rationality, concept of illogicality, criticism criticism of the concept of illusion, criticism of the concept of superstition, among others. And I criticize all of them and I don't regret it. Of course, the E.T.s are among us and interact with us, they just don't see who doesn't want to or who is an atheist fanatic, scientific fanatic, skeptical fanatic, rationalist fanatic, materialist fanatic or neopositivist fanatic. Atheism, antitheism, scientism, skepticism, rationalism, materialism and neopositivism are not discussed, they are fought. It's useless to argue with someone who defends the things mentioned here that must be fought, it's a waste of time and energy, and I've already written a lot about it, but unfortunately, no one takes me seriously and everyone ignores me, if people like me, Guilherme Monteiro Junior, were taken more seriously and had more voice and influence than people like Daniel Foschetti Gontijo and Bibi Bailas, the world would be much better. But unfortunately, I am alone and nobody takes me seriously, I hope that one day someone will write several books about me, developing my works and phrases/concepts/ideas in an improved way and translate them into several languages… I hope so. More critical of atheism, science and skepticism than I am, there is none in the world. Now, it's a matter of waiting until more critics of atheism, critics of science, and critics of skepticism like me appear to change the world for good and put monteirism into practice. Antikratosism is the aversion to kratosism and the aversion to the idea that gods are narcissistic, mistreat humans and make humans victims or even make humans suffer and do not support humans. Antikratosism believes that the gods are empaths, humble, merciful and egoless who live in a communist society without a state and without money, and that they give freedom to humans and living beings as well as help humans and living beings that They need help. Antikratosism also defends the production of mass culture such as movies, games, comics, animations, drawings and books that portray the gods in a positive way, showing the good side of the gods as well as their communist side. Antikratosism is also characterized by defending monteirism, divinialism, deistology, theoanaziticism, bioequalism, sapient equalism and the Anunnaki system. Antikratosism advocates that there should be an upheaval in mass culture and society when it comes to gods and that gods should be shown to be empathetic, humble, merciful and egoless beings who live in a communist society with no state and no money. Critical anti-scientism, sometimes critical anti-science, is a form of anti-scientism, anti-science and criticism of scientism and science, which seeks to unite the notions of anti-scientism and anti-science with criticism of science and criticism of scientism. Where it considers criticisms of science and scientism to be valid and encouraging and promoting them, especially the harshest criticisms, as well as allowing people the freedom to be against science and scientism, provided they have a philosophical and epistemological basis for the same. Critical anti-scientism emerges as a way to combat soft science denialism, spiritual science denialism, post-empirical science denialism, and mental illness denialism; also considering the notions of denialism, pseudoscience, delusion and bullshit as relative and subjective. Critical antiscientism also advocates criticizing and fighting militant atheism, antitheism, atheist fanaticism, atheist extremism, scientism, militant scientism, scientific fanaticism, scientific extremism, scientific materialism, neopositivism, militant skepticism , scientific skepticism, secular humanism, anti-mentalism, and neopositivism. Science is taken over by neopositivism, atheist fanaticism, and scientific fanaticism, which would justify Guilherme Monteiro Junior's critical anti-scientism, whose objective is more the critique of science and scientism itself than the denial of science and method. scientific. In Psychology, anti-antimentalism considers "internalist" notions ("mental" entities as the origin of behavior, whether understood as cognition, id-ego-superego, collective unconscious, etc.) and spiritual notions (spiritual entities) to be valid and pragmatic. and extraphysical as the origin of behavior) that are part of several existing psychological theories. And he considers the notions of anti-mentalism as non-pragmatic, neopositivist and dogmatic. Most of the explanations require the notions of epistemological pluralism and the opening up of areas such as spiritual sciences, agnosticology, deistology, conscientiology, spiritual psychology, among others and, consequently, would justify Guilherme Monteiro Junior's anti-antimentalism due to the fact of natural science contemporary society has its limitations and the fight against neopositivism and militant atheism, therefore, the need for epistemological pluralism. This tactic of "flat earth analogy" or "flat earth analogy" is something that is already becoming something completely absurd and that confuses the minds of several people, and even with several imbeciles and idiots on the Internet and social networks who defend such things. They claim to be against "logical fallacies" but are creating and modifying logical fallacies for themselves, such as the flat earth analogy. And some still love to misuse terms like "pseudoscience", "pseudophilosophy", "bullshit", "nonsense", "false", "delusion" among others, it's past time for people to talk about these things and denounce these things on social media and on the Internet as a whole; for the harm which this may do in the future, and which it will do in the future, will be incalculable. You should also talk about the "Militant Atheism Fetish", also known as "Antitheism Fetish", "Dawkins Fetish" or "Stenger Fetish", which is basically the militant atheist version (or fanatical atheist, fundamentalist atheist, totalitarian atheist or atheist extremist) of the Jakarta Fetish, which is quite common on sites such as Quora, Facebook, Reddit, Wikipedia, RationalWiki, Skeptical Science, Instagram, YouTube among others, in addition to the academy itself and the scientific community itself and the academic community itself. If they talk about it, it will be amazing. I would even talk, but I think there are people better than me who can talk about it. Deistology is a proposed area of research that searches for the existence of gods, spiritual beings and extraphysical life forms. Deistology advocates the use of technology, science, philosophy, spirituality, psychology, parapsychology, extraphysical and psychoextraphysical in the search for gods, spiritual beings and extraphysical life forms. Deistology is considered as the version of ufology responsible for the search for gods, spiritual beings and extraphysical life forms, deistology was created by the union of scientific deism and technodeism as a unified area of study, although deistology is not precisely deist and can use other beliefs, religions and spiritualities as a basis. Deistology is also referred to as agnosticology when it comes to an agnostic approach to gods, spiritual beings and extraphysical life forms, although the term deistology is still used in this case. Agnosticology is the study of agnostic beliefs, in addition, the term is also used as the study of the existence of gods, spiritual beings and post-physical (extraphysical) life forms and the development of means and technologies for their search, being synonymous with deistology . Agnosticology is often considered a non-scientific area that is beyond the domain of hard and soft sciences, forming part of the so-called "spiritual sciences" and "agnostic sciences". A good example of agnosticology is the idea of E-SETI (Extended SETI), which is a hypothetical branch of SETI that would be focused on the search for post-physical and post-biological life forms. Extraphysical Aliens Theory (EPAT), also Extraphysical Extraterrestrials Theory (EPETT), Post-Physical Aliens Theory (PPAT), Post-Spacetime Aliens Theory (PSTAT), Post-Physical Extraterrestrials Theory (PPETT) or Post-Spacetime Extraterrestrials Theory (PSTETT), is a theory that holds that extraterrestrials have evolved into an extraphysical level of being by becoming post-physical / post-spacetime by technological or by spiritual means. The extraphysical aliens theory also supports that by the time that extraterrestrials have existed, they've already evolved into an extraphysical level of civilization and they exist beyond physics/matter and beyond the spacetime. The extraphysical aliens theory also supports that there might have extraphysical alien worlds at extraphysical level as well as the so called "gods" and "spiritual beings" might actually be aliens that or already existed at extraphysical level or were physical aliens that evolved into an extraphysical level of being or by technology or by spiritual means. The Extraphysical Aliens Theory is an interesting theory about aliens, despite a lot of people are against that and there's a big criticism towards it, the theory is still valid and might be correct somehow. Atheist Trauma Syndrome, also shortened as ATS, is the name of a mental condition provoked due to massive hardline (new) atheist information and due to things that (new) atheists and atheist zealots often say on the Internet, one of the most common traits of this syndrome is that when an individual struggles with leaving atheism or a set of atheist beliefs or information that has led to them become atheist or think that atheism is right about religion and spirituality, it often have the same symptoms of religious trauma syndrome, but being about atheism, mostly about new atheism, militant atheist, atheist fundamentalism and scientism. Atheist Trauma Syndrome is actually a thing, but sadly there's not a lot of studies about that and only few people actually study about such syndrome, it's mostly common between ex-atheists and people who used to watch atheist YouTube channels, read atheist sites and blogs and follow atheist accounts on social media.

LOG IN TO REPLY

Guilherme Monteiro Jr.

March 3, 2022 at 7:21 am

Skeptical Science

Skeptical Science is a website that says to fight climate change skepticism and climate change denial, but nowadays it is a website that promotes neopositivism, militant atheism, militant scientism, militant debunkism and militant skepticism; it believes that conspiracy theories cannot happen despite the number of conspiracy theories that turned out to be true; it believes that all alleged fallacies are always fallacious despite that often alleged fallacies are not fallacious at all, but rather reasonable heuristics and the first step to deal with a complex problem, and it also often use of the own fallacies they claim people actually use in order to attack anyone who disagrees with neopositivism and militant atheism, and also calling anyone who disagrees with neopositivism and militant atheism “antiscience” and “denialist”. Overall, it is basically a non-Wiki version of RationalWiki focused on fighting climate change skepticism and climate change denial, this website should change its name to “Skeptical Scientism” or “Skeptical Militant Scientism” to fit better what this website is actually about.

Skeptical Science is just like RationalWiki in form of a website focused on fighting climate change skepticism and climate change denial.

Big Think

Big Think is a multimedia web portal that says to be about discussions and such, but it is actually a multimedia web portal for the promotion of militant atheism, antitheism, militant scientism, militant secularism, militant rationalism, atheist fanaticism, atheist extremism, neopositivism, psychoatheism, neuroatheism, neoliberalism and liberalism; where most of its videos have a massive atheist bias and liberal bias, it is a website that is no different than RationalWiki, Skeptical Science and Quora when it is about discussions and get knowledge.

Hey man, Big Think is just as bad as RationalWiki and Quora, you shouldn’t use this website for reference for anything, except if you like listening to militant atheism, militant scientism and militant liberalism.

RationalWiki

A alleged rationalist and scientific website focused on fight “pseudoscience” that nowadays is mostly a website that promotes militant atheism, atheist fanaticism, atheist extremism and neopositivism, very liberal centrist views about the world pretending to be objective views of the world, massive fallacy forging out of completely non-fallacious arguments, categorizing things “pseudoscientific” that are not pseudoscientific at all, things that do not even pretend to be scientific at all and things that they disagree/dislike or do not believe in, supports that conspiracy theories cannot happen despite the number of conspiracy theories that turned out to be true, blocking and banning everyone who post anything that goes against atheism, neopositivism, and liberalism-centrism regardless how trustful are your sources and links, and a website that doesn’t allow criticism of atheism nor criticism of science and deemed both of them as being “pseudoscientific”, “antiscience” and “science denial” when they aren’t. It is a website to be avoided, and no one should use this website for anything, nor even as source for anything.

RationalWiki is more for IrrationalWiki, and RationalWiki is the ultimate proof that rationality and irrationality are relative and subjective, because it is possible to realize that after seeing how the average RationalWiki users are in practice.

Quora

Once a well respected website, now Quora is a site filled with PRC/CCP propagandists, atheist zealots, atheist extremists, anti-theists, hardline liberals, left-wing larpers, people with fake graduations, dogmatic materialists, dogmatic rationalists, dogmatic neopositivists, dogmatic scientificists and moderators who delete and ban everyone who opposes PRC, CCP, atheist extremism, militant atheism, atheism as a whole, anti-theism, liberalism, neoliberalism, larper leftism, materialism, rationalism, neopositivism and scientism.

Quora is a website filled with left-wing atheists who answer all questions there, better you get your question straight from the horse’s mouth than on Quora.

Culture of Debunking

The Culture of Debunking is a term used to refer to the culture of someone debunkd things they disagree with or dislike just to become famous, attack others, be a militant against what he does not like, or even for aristocratic and economic purposes. The culture of debunking tends to go hand in hand with the theory of social quackery, and the culture of debunking is considered the main ideology of the vast majority of debunkers and skeptics around the world.

The Culture of Debunking is worse than the cancel culture and must be fought.

Militant Atheism

Militant Atheism, also referred as New Atheism, Antitheism, Atheist Fanaticism, Atheist Fundamentalism or as Atheist Extremism, is an atheist ideology and a variant of atheism that supports that atheism should be spread worldwide and also supporting very violent and passive-aggressive arguments against religion and spirituality. It says to be against fanaticism, fundamentalism and extremism, despite promoting fanaticism, fundamentalism and extremism by themselves. Militant atheism is no different than religious fundamentalism and religious extremism and should be equally countered as religious fundamentalism and religious extremism.

Militant Atheism is as bad as religious fundamentalism. And hey, stop denying it isn’t.

LOG IN TO REPLY

Guilherme Monteiro Jr.

March 3, 2022 at 7:22 am

I hate secularism and I want to replace secularism in all countries by agnosticocracy, or pluralism, or state religion, besides massive state policies for countering atheism, militant atheism, atheist fanaticism, atheist fundamentalism, atheist totalitarianism, atheist extremism, antitheism, scientism, militant scientism, scientific fanaticism, scientific fundamentalism, scientific totalitarianism, scientific extremism, skepticism, militant skepticism, scientific skepticism, rationalism, militant rationalism, materialism, militant materialism, neopositivism, speciesism, xenospeciesism, theospeciesism, deicidism, kratosism, human supremacism, classical transhumanism and debunkism. And also state policies for the development of areas like deistology, agnosticology, conscientiology, spiritology, divinology, esoterology, parapsychology, extraphysicalism, extramaterialism, extranaturalism, spiritual sciences, extraphysics and metaphysics as well.

LOG IN TO REPLY

Guilherme Monteiro Jr.

April 9, 2022 at 9:55 am

I was thinking about writing about a long comment about scientific authoritarianism, scientific totalitarianism, scientific fascism, scientific ingsoc (sciensoc/scientosoc), scientific cultism, scientific fundamentalism, scientific fanaticism, pathological scientism, militant scientism, atheist authoritarianism, atheist totalitarianism, atheist fascism, atheist ingsoc (atheosoc), atheist cultism, atheist fundamentalism, atheist fanaticism, pathological atheism, militant atheism, skeptical authoritarianism, skeptical totalitarianism, skeptical fascism, skeptical ingsoc (skepsoc/skeptsoc/skeptisoc/skepticsoc), skeptical cultism, skeptical fundamentalism, skeptical fanaticism, pathological skepticism, militant skepticism, secular authoritarianism, secular totalitarianism, secular fascism, secular ingsoc (seculsoc/seculasoc/secularsoc), secular cultism, secular fundamentalism, secular fanaticism, pathological secularism, militant secularism, irreligious authoritarianism, irreligious totalitarianism, irreligious fascism, irreligious ingsoc (irrelsoc/irreligisoc), irreligious cultism, irreligious fundamentalism, irreligious fanaticism, pathological irreligion, militant irreligion (irreligious militancy), freethought authoritarianism, freethought freethought, scientific freethought, scientific ingsoc (freethosoc/freethousoc/freethoughtsoc), freethought cultism, freethought fundamentalism, freethought fanaticism, pathological freethought, militant freethought (freethought militancy), evidentialist authoritarianism, evidentialist totalitarianism, evidentialist fascism, evidentialist ingsoc (evisoc/evidentsoc), evidentialist cultism, evidentialist fundamentalism, evidentialist fanaticism, pathological evidentialism, militant evidentialism, anti-pseudoscience authoritarianism, anti-pseudoscience totalitarianism, anti-pseudoscience fascism, anti-pseudoscience ingsoc (antipseudosciencesoc/antipseusciesoc), anti-pseudoscience cultism, anti-pseudoscience fundamentalism, anti-pseudoscience fanaticism, pathological anti-pseudoscience, militant anti-pseudoscience (anti-pseudoscience militancy), ex-religious authoritarianism, ex-religious totalitarianism, ex-religious fascism, ex-religious ingsoc (exrelsoc/exrelisoc/exreligisoc), ex-religious cultism, ex-religious fundamentalism, ex-religious fanaticism, pathological ex-religion, militant ex-religion (ex-religious militancy), antitheist authoritarianism, antitheist totalitarianism, antitheist fascism, antitheist ingsoc (antitheosoc), antitheist cultism, antitheist fundamentalism, antitheist fanaticism, pathological antitheism, militant antitheism, neopositivism, antitheism, freethought, scientific evidentialism, empirical evidentialism, scientific methodicalism (scientific methodism, where the scientific method can determine, proof or disprove anything), and related and how authoritarian, totalitarian, fascist and fundamentalist they are. But I feel I have wrote so much about those things to a level I feel it would be waste of time, and I feel I am already very tired and sick for doing that all the time… It is becoming very tiring and I am getting sick of doing that as well. I think my the quantity of comments and texts I have made, it is enough for someone who thinks as me to continue my work on that.

LOG IN TO REPLY

Guilherme Monteiro Jr.

April 10, 2022 at 10:37 am

Because of that comment I made about Aaron Minch, I decided to post it here. Feel free to comment them if you want.

Sumerian Proverbs

Proverbs at The Electronic Text Corpus of Sumerian Literature
Collections: 1, 2, 3, 4, 5, 7, 8, 9, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 23, 25, 26, 27, 28, unknown provenance.
Who can compete with righteousness? It creates life.
You should not cut the throat of that which has already had its throat cut.
What has submitted will exhibit resistance.
Wealth is far away, poverty is close at hand.
He who possesses many things is constantly on guard.
Possessions are flying birds — they never find a place to settle.
Don't pick things now; they will bear fruit later.
The songs of a city are its diviners.
Things may be traded in the city but it is the fisherman who brings in the food supply.
He hurled his insult. He laid his curse.
A curse which is reciprocated will be retaliated against with yet another curse.
It is an insult resulting from an insult. It is a curse resulting from a curse.
It is the constant renewal of destiny.
To accept a verdict is possible. To accept a curse is impossible.
What comes out from the heart of the tree is known by the heart of the tree.
A heart never created hatred; speech created hatred.
A plant as sweet as a husband does not grow in the steppe.
A variant has the word "desert" instead of steppe.
Marry a wife according to your choice.
Have children to your heart's content.
Girl, your brother cannot choose for you; whom do you choose?
Girl, your brother is like me. A brother should let you live as would I.
He who does not support a wife, he who does not support a child, has no cause for celebration.
Marrying is human. Having children is divine.
When I married a malicious husband, when I bore a malicious son, an unhappy heart was assigned to me.
I visit it by day, I visit it at nightfall. I always stand by the lamentation drum!
You should not alienate their rituals!
Where there are bonds, you should not destroy the place!
You should not eradicate their place in the universe.
You should not move the oxen from their places!
Let me tell you about my fate: it is an insult. Let me explain it to you: it is a disgrace.
Were I to tell my neighbour about my fate, he would heap insults upon me.
I looked into the water. My destiny was drifting past. I was born on an ill-fated day.
Fate is a dog, well able to bite.
Fate is a raging storm blowing over the Land.
He who knows how to move around becomes strong. He will live longer

than the sedentary man.

If a scribe knows only a single line but his handwriting is good, he is indeed a scribe!

If a singer knows only one song but makes the sound pleasant, he is indeed a singer! […] When a singer's voice is sweet, he is indeed a singer.

What kind of a scribe is a scribe who does not know Sumerian?

The scribe trained in counting is deficient on clay. The scribe skilled with clay is deficient in counting.

A chattering scribe's guilt is great.

A scribe who does not know how to grasp the meaning — from where will he produce a translation?

The fox lies even to Enlil.

The fox, having urinated into the sea, said: "The whole of the sea is my urine!"

Tell a lie and then tell the truth: it will be considered a lie.

For a donkey there is no stench. For a donkey there is no washing with soap.

One does not marry a three-year-old wife, as a donkey does.

Furrows are pleasant to a threshing ox.

Once I had escaped the wild bull, the wild cow confronted me.

May the city build like me! May the Land live like me!

One should not remove what belongs to my mistress Inana.

Scowling dogs belong to the shameless man.

The good thing is to find it; the bad thing is to lose it.

For his pleasure he got married. On his thinking it over he got divorced.

Their pleasure, their discomfort. Their discomfort, their pleasure.

He who shaves his head acquires ever more hair.

He who destroys houses destroys silver. He who destroys a house destroys gold.

Let there be unused land adjacent to a house.

Hand added to hand, and a man's house is built up.

Ninazu, a bird flying around is your share.

The wood pigeon's voice is the glory of the garden.

The francolin's voice is the glory of the fields.

Offerings are the glory of the gods.

I will feed you even though you are an outcast. I will give you drink even though you are an outcast. You are still my son, even if your god has turned against you.

"I will go today" is what a herdsman says; I will go tomorrow is what a shepherd-boy says. I will go is I will go, and the time passes.

While you still have light, grind the flour.

To eat modestly doesn't kill a man, but to covet will murder you. To eat a little is to live splendidly.

There are bitter tears in human flesh.

A hand will stretch out towards an outstretched hand. A hand will open for an opened hand.

When the sun is setting outside so that you cannot even recognise the hand in front of you, go indoors!

As long as you live you should not increase evil by telling lies; for if you do, to succumb will be your lot.

Weighing scales made with sinews are a trap made for the feet; a man should not take a merchant for his friend.

Variant: "Scales made with sinews are a trap contrived of dishonesty; should a man then take a merchant for his friend?"

Nanni cherished his old age. […] He captured Simurrum, but […] he never saw mighty kingship. Thus Nanni was carried off to the nether world.

Variant: Nanni appreciated his old age. He built Enlil’s temple but did not complete it. […] He captured Simurrum, but did not suppress it. In misery […] thus Nanni was brought to the nether world depressed at heart.

Nanni cherished his old age: “I am what an old man should be.”

One cannot drag out the weak, one cannot hold back the strong.

He who insults is insulted. He who sneers is sneered at.

Ickur splits the mountains, yet he does not split the waterskin.

As the sun rises, decisions are made. By the time the sun is up, kingship is conferred.

The battle-club would not find out your name — it would just find your flesh.

Our own odour is of pulled-up turnips — sweet things are brought by strangers.

Enlil’s temple is a summation of accounts. The temple manager is its overseer.

Enlil’s greatest punishment is hunger.

You speak with me and I speak with you.

The fool is garrulous.

Where there is no grain, this is a sign of vengeance turned towards a city.

Where there are no reeds, it is the worst of all poverty.

Something offered is not offered. Something finished is not finished.

Nothing changes.

When a man comes forward as a witness, saying: “Let me tell you what I know about him”, but does not know the relevant information, it is an abomination to Suen.

A variant names Utu instead of Suen.

Flies enter an open mouth.

A variant is present in Jacula Prudentum (1651) by George Herbert: Into a mouth shut flies flie not.

Offerings create life.

Punishment is assigned for the swaggerer; he is afflicted with diseases.

May Inana pour oil on my heart that aches.

If it is too sweet for him, let him eat salt. If it is not too sweet for him, let him eat licorice.

Before the fire has gone out, write your exercise tablet!

A man’s personal god is a shepherd who finds pasturage for the man. Let him lead him like sheep to the food they can eat.

As long as the boasters haven’t departed, their mouths make me uneasy.

The heavens were destroyed, the earth was shaken. After the heavens were destroyed and the earth was shaken, the people were still standing there on their own.

He who entered Elam — his lips are sealed.

He who has to live in Elam — his life is not good.

He who keeps fleeing, flees from his own past.

Between the basket and the boat are the fields of Simurrum.

Whether it is roasted or not, you should sprinkle the grain.

In Eridug, built in abundance, the monkey sits with longing eyes in the singer’s house.

Let me drink beer shandy and sit in the seat of honour!

A good word is a friend to numerous men.

Putting unwashed hands to one’s mouth is disgusting.

May a clever farmer live at home with you.

My drink is a river. The place where I sleep is a place of reed mats.

The sun never leaves my heart, which surpasses a garden.

The cemuc barley is reserved for the necromancer.

Note: In ancient Mesopotamia, barley was used as commodity money.
If the sieve is not shaken, his flour will not drop from it.
Coveting and spying are abominations to Ninurta.
When present, it was considered a loincloth; when lost, it is considered fine clothing.
If the leader is being devoured by a fire, those behind him don't say: "Where is the leader?"
When righteousness is cut off, injustice is increased.
What is placed in the fire has a valuable role to play but leaves nothing behind when it's gone.
The north wind is a satisfying wind; the south wind is harmful to man.
The east wind is a rain-bearing wind; the west wind is greater than those who live there. The east wind is a wind of prosperity, the friend of Naram-Suen.
He could not overcome his fears, so he cut off what was fuelling them.
O lion, your allies in the reedbeds are numerous.
Note: in ancient Mesopotamia, the lion was regarded as a symbol of kingship.
The lion who lives a life of compassion will receive it.
If a dog snarls, throw a morsel into his mouth.
The dog has been taught to pay attention; as long as he pays attention, he may escape his chain.
He said: "Woe!" and the boat sank with him. He said: "Alas!" and the rudder broke. The young man said: "Ah god!" and the boat reached its destination.
Conceived by no father, conceived by no mother, the reed came out of the breast of the storm.
A pig which was about to be slaughtered by the pig-butcher squealed. (The butcher said:) "Your ancestors and forebears walked this road, and now you too are walking it, so why are you squealing?
A man raising his hand in anger does not see clearly.
A fox demanded of Enlil the horns of a wild bull. While it was wearing the wild bull's horns, it started to rain. But the horns rose high above him, so he could not enter his burrow. Until midnight the wind kept blowing, and the clouds brought rain. Afterwards, when it had stopped raining on him, and he had dried off, he said: "I shall return this feature to its rightful owner!"
Whatever the man in authority said, it was not pleasant.
Whatever the man in authority said, it was not right.
The mighty man is master of the earth.
See Master of Animals.
The strength of my god completes my own.
Ignoramuses are numerous in the palace.
He who knows but does not speak is a fool.
Oh Utu, you are my judge: pronounce my judgement! You are my decision-maker, decide my case! The dream that I have seen — turn it into a favourable one! Let me walk straight, so that I can catch up with my companion!
Who can compare with humility? — It is set in goodness.
He spoke but did not keep his word. He keeps speaking but shies away from his responsibilities.
From the river, oh Inana, let my man eat.
A palace will fall of its own accord.
Oh whirlwind, I dispatched you towards Agade. What did you accomplish in Agade? The dream was favourable!
To take revenge is the prerogative of Ninurta.

That my friend should be well is our wish, and that our enemies should be gone! May those friendly to you reach their goal as a ship does a friendly harbour! May your enemy, like the flood waters of a river, return to his city.

Those who live near the water look into the mountains. They don't look in their own direction.

Note: Sumer was a river valley civilization and its irrigation relied on the water cycle of the Tigris–Euphrates river system, which has its sources in the mountains of eastern Anatolia, Turkey.

A loving heart builds houses. A hating heart destroys houses.

A variant is found in Instructions of Shuruppak (3rd millennium BCE) by Šuruppak: "A loving heart maintains a family; a hateful heart destroys a family." [1]

A man who behaves like a damp reed towards his fellow men does not tell the truth either.

The man whose knees are paralysed has not prayed devoutly to Nintud.

Even a millstone will float in the river for a righteous man.

The owner of a house should reinforce the windows against burglars.

A crafty man does not transgress against his mother.

You subject yourself to rules — as a thief does.

A house of debt is a house in whose interior no light shines.

The dishonest man stole silver; the honest man will earn his pay.

When dishonest men come to your banquet, they are troubled and try to hide it.

Let the favour be repaid to him who repays a favour.

The temple E-babbar, which Me-silim had built, was destroyed by Nanni, whose posterity had been cut off.

Utu is lord; you should fix your gaze on him.

The well-wisher is the mother of the refugee.

May the people wish you well. May your god grant what you are in agreement with.

You shouldn't give a lame man a staff. Enlil is his helper.

Let the herdsman whip the ox. Let the shepherd slaughter the sheep.

Where there is no toughness, no man can go about his business.

After becoming a thief, one becomes an outcast.

No one is tall enough to reach up and touch the heavens. No one is broad enough to lift his gaze over the whole earth. […] But you, who roar like a storm — may you establish yourself like a lion. […] No man can bring about your demise.

The poor man does not strike his son a single blow; he treasures him highly forever.

The idleness of a low-life causes losses; his shying away from work is perpetual.

Your worthiness is the result of chance.

Whenever there is excess, an axe remedies it!

The chasing away of a younger son from the house of his father is an abomination to Ninurta.

Variant: Violent cursing and chasing away a son from his father's house are abominations to Ninurta.

A dishonest man chases after women's genitals.

No one walks together with him or directs their steps towards him. Life passes him by like water. He is dear to no just man, plague prevails over him. Like a worthless penny. […] He is clothed with a garment as if a heavy punishment were assigned to him. Who is he? His name? A man sleeping with someone's wife.

Good is in the hands. Evil is also in the hands.

The heart does not let go of the good. […] As if it were a fertile spot, the heart does not abandon the good.

Accept your lot and make your mother happy! Run fast and make your god happy!

Whatever I say, I will say it twice, and then I will repeat it again.

The liar is quarrelsome. He always lies. He always slanders. Treacherous! Malicious! Shifty-eyed!

Utu's glance is prayerful. Utu's heart is compassionate. A devotee of Utu is among the holy. Allotted by Utu to be fortunate, a […] ship reaches the quay.

Although the number of unhappy days is endless, yet life is better than death.

To take revenge is an abomination to Ninurta.

When a trustworthy boat sets sail, Utu seeks out a trustworthy harbour for it.

To remove something from its proper place is an abomination to Ninurta.

Fear of god creates good fortune. Lamentation absolves sin. Offerings extend life.

The rich man's heart is sick, it is very sick indeed.

A stake, my lord; "hero" is its name.

If a man does not treasure his god, that man will not be buried. His heir will not provide him with water libations.

He who despises a just decision, who loves wicked decisions, is an abomination to Utu.

A judge who despises justice, cursing with the right hand, and the chasing away of a younger son from the house of his father are abominations to Ninurta.

Thanks to the word of his personal god, the fate of the man who speaks just words is favourable, and he is with him throughout the day.

My king, the lord perfect in heaven, built a house in the barren marshes.

The god of the river ordeal will admire the hearts of those who bear words of truth.

May Lumma grant prosperity to him who performs good deeds.

The voice of the forest kujanun bird is the glory of the tamarisks.

The voice of the duck is the glory of the marshes.

Proverbs from Nibru

Text online

A clown made fun of the city. They made fun of him and he wept.

Do not be hostile to the weakling; do not cry for the strong one.

I prostrate myself for the sake of Gula, my lady, but in my own eyes I don't have a place to stand.

Talking endlessly is what humankind has most on its mind.

Your role in life is unknown.

Proverbs from Susa

Text online

The voice of the frog is the glory of the marsh waters.

Let him who has a household go to his household! Let him who has a household and a mother go to his mother!

Loving and comforting are vitality.

Proverbs from Urim

Text online

Who can compare with justice? It creates life.

Whenever wickedness may cause trouble, Utu will not be idle!

He who has nothing cannot let go of anything.

To be wealthy and demand more is an abomination to a god.

A plant sweeter than a husband, a plant sweeter than a child: may Ezina-Kusu dwell in your house.

That which matches my tears hurts my heart alike.

When liars enter by the city gate, in front of them there is a finger pointing at them, behind them there is a finger pointing at them.

The palace is a forest, and the king is a lion.

Strength cannot keep pace with intelligence.

Utu, the lord who loves justice, extirpates wickedness and prolongs righteousness.

When battle approaches, when war arises, the plans of the gods, beloved by the gods, are destroyed.

A man without a personal god does not procure much food, does not procure even a little food. Going down to the river, he does not catch any fish. Going down to a field, he does not catch any gazelle. In important matters he is unsuccessful. When running, he does not reach his goal. Yet were his god favourable toward him, anything he might name would be provided for him.

One should pay attention to an old man's words. One should submit oneself to his protection.

A child should behave with modesty toward his mother. He should take the older generation into consideration.

A younger brother should honour an older brother. He should treat him with human dignity.

Don't let your mouth accuse him; don't slander him; don't encourage violent retaliation against yourself.

A man's intelligence comes from god.

A man who does not value his god is thrown out in the desert; his body is not buried and his heir does not provide his ghost with drinking water through a libation pipe.

Pleasure is created. Sins are absolved. Life is rejuvenated.

Let just men be born in good health, and let their lives last long.

By following craftiness, one learns how to be crafty. By following wisdom, one learns how to be wise.

To the trustworthy man belongs a divine voice. The barge on the river and the chariot on the road come to him.

LOG IN TO REPLY

Guilherme Monteiro Jr.

April 10, 2022 at 10:43 am

Sertraline is really good, I have to say that, I am feeling very well and becoming less and less impulsive, just sometimes I become impulsive, that is very good. I like that. Together with Risperidone, it is working very well, and together with my spiritual healing (faith healing) that Kasdeya is doing with me, I am feeling well, spiritual/religious/faith healing is not pseudoscience and it indeed can work, since you do it together with conventional treatment, it is very like psychological/psychiatric treatment, faith healing can work, since you know what you are doing and if you understand how it is works. And not behave or act like atheist zealots, scientific zealots, skeptical zealots, irreligious zealots, secular zealots, neopositivists, antitheists and such. And also if you understand how God or gods actually are and their nature, being everywhere and right here, right now.

LOG IN TO REPLY

Guilherme Monteiro Jr.

April 10, 2022 at 10:46 am

And yeah, I might be a pathological antiatheist and pathological antirightist/anticapitalist/antineoliberal, but I understand how it is and I only became like that because of pathological atheists and pathological rightists/capitalists/neoliberals, mainly from this pathological insanity named “the Internet”. And I am treating myself very well nowadays.

LOG IN TO REPLY

Guilherme Monteiro Jr.

April 10, 2022 at 10:56 am

What Kasdeya told me yesterday. And yeah, it is very useful for me and for a lot of people as well.

“They (like those ones of Bibliotecapleyades) aren’t aware. They’re being tricked and lied too. You talked before about the factions right? There’s some really bad beings that don’t want us back. The fake story of anunnas being aliens which enslaved humans is going around. Some ppl just dont know better, hear it so ofc their reaction will be negative. When the truth is hidden people make their own. I just hope we’ll be able to stop it. But to change the world, we need to break the human boundaries. That’s the only hope we have left in the current situation. We need to master the same magic gods once used. Are you familiar with the concept of ME? Sumerian tablets of knowledge. Yeah they use it (psychic stuff) for money, they are just like those people using of “science” (scientism and neopositivism mainly) and antitheism just for aristocratic reasons (then money). The ME are all around you. They’re the knowledge. Once you know about a domain you can say you have it’s ME. Like you being knowledgeable in politics you have the me of politics. Same as that, i’ve been training all my life to have as many me as possible. But to master the me of consciousness is something no one has done in thousands of years. If we don’t do something out of ordinary we won’t be taken serious. That’s why i dislike people boosting around about being idk which god or doing magic or shit. All just bark and no bite. I’ll speak only when i have proof to sustain my words. You should too. You know who you are. So become what you are. In your dreams when you see your best self. Become that in reality. Mounter you need to break every limit this reality has. We have to defy all logic and do the impossible. We need to become more than humans… That’s the only way. “But I fear if I become like Dumugian and I become just like that version of myself that I was in r/tabbygetthegas and r/nppfunny… That is the what I fear…” Hate eats the soul. Don’t let yourself be consumed by it anymore. We need to not fall in the same traps as the rest of humanity. We have seen what killed them for thousands of years. “And what about the whole insanity thing… How can I avoid that?” Become aware of what you weren’t before.. You right now function with only an ammount of awareness. Let’s say 50%… The rest is used up in the subconscious for various reasons. You need to become aware of those background uses of your awareness. Like for example. When a thought forms, what steps does it take? “Like that Godmitsuru guy and those guys who pretend to be Jesus on Earth and such” Never mind them. They can only exist because we are sleeping. “But the thing is I fear to become like those people who says they are the second incoming of Jesus or like those people from r/starseeds…” You won’t become like that as long as you know what you are fighting for &

know your own path. Actions must not be guided by selfish reasons. We don't fight this war to look good or to boost about it. We do it because we have to. Because no one else will. Honestly I wish I could just go back in time and stay there. But here I am breaking all limits. You need to work on your skills of spreading a message. Use lesser words. And to the point. Try to write the shortest version. People avoid hard stuff. They dislike reading a lot. If you want success you need to use less words. And get to the point. And never lose your calm.. If you become polarized you already lost. "I should write with the limit of those quotes on Instagram pictures and such. And not on Quozio limits" Yes. "Quozio limits is around 4000 characters" Exactly Lol. I believe in you. Less is better Mounter. "I only become polarized when I am having manic attacks or aspie attacks. Just that. Or when I am writing some of my comments. Mainly my comments on FRT-PCTB blogs. Yeah, that is the why some of them I translate to more than 10 languages lol" If you become aware of their cause you can break these chains." – Kasdeya

LOG IN TO REPLY

Guilherme Monteiro Jr.

April 10, 2022 at 11:03 am

Still well I have Kasdeya for help me, her comments/quotes/texts helped me a lot, I dunno would be with me without Kasdeya… Still well she forgave me and she helps me the maximum as I can and she finally understands me as well… And I am treating myself with Sertraline and Risperidone as well. I really hope I will fine in the next months and years to come. And thank you Jason for allow myself to make my comments here, I dunno what would be of me if you didn't allow me to post my comments here. Thanks for everything.

LOG IN TO REPLY

Guilherme Monteiro Jr.

April 10, 2022 at 2:38 pm

I have just thought in the concept of social pathology, also cultural pathology, political pathology or even ideological pathology, both are the same thing, I know they might have different means, but in this case, both mean the same thing. Social pathology is basically a form where a person compulsive or obsessive about something in a way it looks like the person is mentally ill or has some psychological/psychiatric problem, but it often does not imply the person is mentally ill and such things. Like as I have wrote about pathological atheists, pathological antitheists, pathological skeptics, pathological free thinkers, pathological scientificists, pathological rationalists, pathological pro-scientists, pathological neopositivists and pathological materialists on the Internet and on social media (like the ones on Internet atheist groups and on websites like Quora, Reddit, Instagram, TikTok, YouTube and Facebook), it is an example of social pathology. Pathological rightists, pathological capitalists, pathological neoliberalsa nd pathological libertarians on the Internet and social media (like the ones on Quora, Reddit, Instagram, TikTok, YouTube and Facebook), that is another example. And even mentioning the pathological speciesists, pathological xenospeciesists, pathological theospeciesists, and pathological misotheists from companies like Atlus, Capcom, Bethesda, Marvel, DC, Ubisoft, Santa Monica Studio, Hi-Rez Studios, Supermassive Games, and similar companies, and even from Hollywood itself. I can even mention myself as being a pathological antiatheist and a pathological antirightist, pathological anticapitalist and pathological antineoliberal as well. Social pathology does not imply into having some mental illness, but it is often related to that, in case it causes distress or confused thinking or confused writing, it might be related to mental illnesses like autism and bipolar disorder. Otherwise, social pathologies can be considered as mental illnesses as well, but rather as illnesses of character, of mindset and of personality rather than a mental illness like autism and bipolar. But yeah, it would be necessary a deep psychological and psychiatric discussion about that. Because it would imply that most of the world population, at least population on the Internet, are mentally ill, and in this case, it is not actually a psychiatric/psychological thing for be solved, since it is something part of the "norm" and the norm nowadays is very insane and nonsensical in so many ways, and the whole social pathology I told here shows that very well. Or even social pathology is a common feature inside social media and inside the Internet, it is something for deep discussions and even discussion inside and outside the fields of psychology and psychiatry.

LOG IN TO REPLY

Leave a Reply

You must be logged in to post a comment.